January 25, 2013
Sent Via Email

Mr. Greg Hammarstrom
Director of Facilities and Project Management
University of New Orleans Foundations
Advanced Technology Center
2021 Lakeshore Drive, Suite 420
New Orleans, LA 70122

RE: Water Damage – Air Quality Sampling – Hurricane Isaac
Navy ITC - Building #2
Leaaf #: UNO-027

Dear Mr. Hammarstrom:

The following is the report for the mold air sampling events at the Navy - Information Technology Center Building # 2, 2285 Lakeshore Dr., New Orleans, LA 70122 which occurred December 26, 2012. Refer to Appendix A – Property Location Map for an illustration of the property's location.

Air quality measurements were collected both inside and outside of the building in the water affected areas of the 1st through 4th floors using bioaerosol cassettes. The collected air samples were sent to a third-party laboratory (EMLab P&K) for direct read analysis for mold. The sampling event included the collection of fourteen (14) different sampling locations that were comprised of two (2) outdoor locations and twelve (12) indoor.

The review of air results indicates that the mold air quality within the tested areas in the rooms are not significantly different indoors then someone would be exposed to outside. Additionally, when one compares the Mold Score calculation detailed in the lab report, it can be concluded that the mold detected indoors is derived from outdoors and is not from indoor sources.

The attachments to this report will provide additional information concerning the methodology used to collect the samples, the location of the samples collected and laboratory results.

If there are any questions or additional information is needed, please contact me at (504) 342-2687.

Sincerely,
Leaaf Environmental, LLC

Jim Blazek, Jr.
Sr. Environmental Professional

Attachments (support documents)

Appendices

Appendix A – Property Location Map

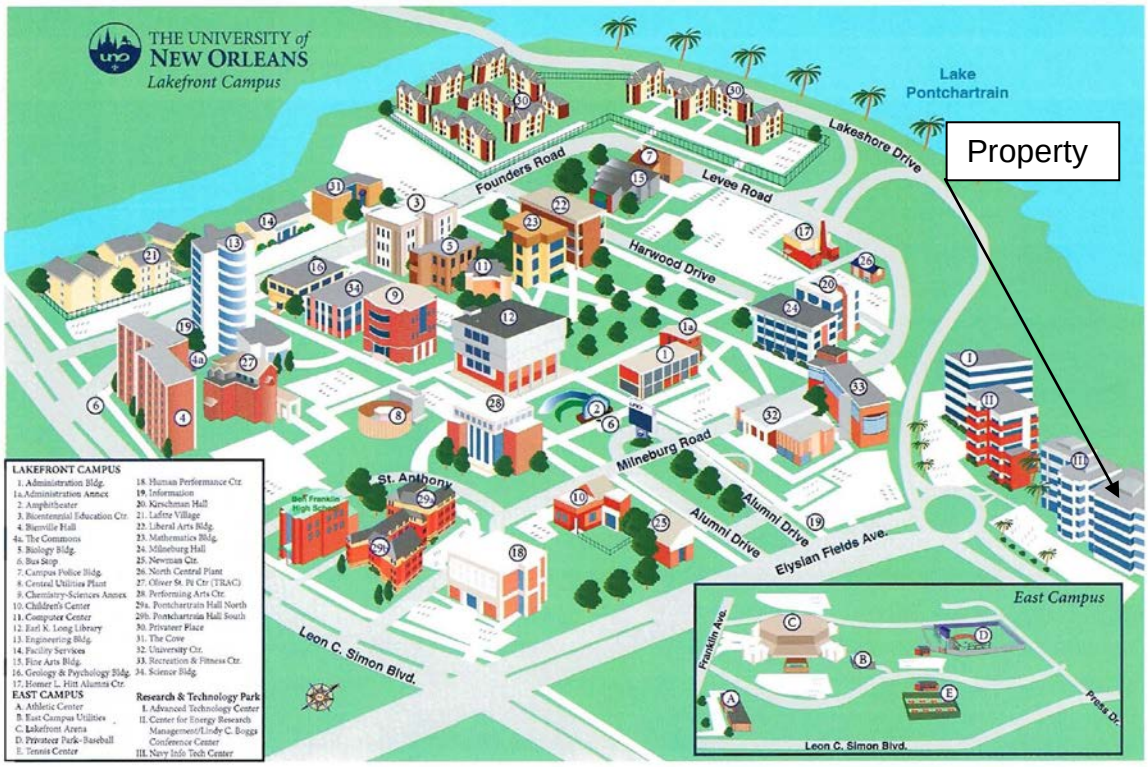
Appendix B - Sampling Support Documentation

Attachment 1 - Sampling & Analysis Method
Attachment 2 - Field Documentation
Attachment 3 - Analytical Results and Chain of Custody

Appendix C –Sources of Information

Appendix A:

Property Location Map



Leaaf Environmental, llc www.leaaf.com	*Source:* University of New Orleans Incorporated by Leaaf on January 25, 2013	*Property:* **UNO Lakefront Campus – Research and Technology Park** Navy Information Technology Center	*Drawing Name:* **Property Location Map**

Appendix B

Sampling Support Documentation

Attachment 1 - Sampling & Analysis Method
Attachment 2 - Field Documentation
Attachment 3 - Analytical Results and Chain of Custody

Attachment 1

Sampling & Analysis Method

General Procedures:

As there are no current regulatory standards that have been developed by the U.S. Environmental Protection Agency (EPA) or the Louisiana Department of Environmental Quality (LDEQ) for mold spore inspections, Leaaf has utilized the following method for identifying if airborne mold is present within an area of concern through the use of air quality sampling methods. Leaaf's environmental professional places air monitoring stations in areas of concern (identified by others), or locations that would typically represent the area(s) or building(s) of concern. In the event that visible mold growth or moldy odors are reported Leaaf inspects the area(s) of concern and determines if any of the following are present: (1) visible source(s) of suspect mold growth, (2) visible signs of water staining and/or (3) suspect odors. Based on the observations, Leaaf selects sampling locations. Air samples are also collected outdoors to establish a baseline, control or background reference to compare to indoor samples. All samples are collected on a bioaerosol cassette and forwarded to a third party laboratory for analysis via a signed chain of custody. The laboratory typically used is either EMLab P&K or EMSL. Once the laboratory data are returned to Leaaf, they are reviewed and a report is developed. The conclusions of the report are based on the data collected at the time of the sampling. As there are no regulatory standards, Leaaf compares the indoor results to the outdoor results and determine if there is a significant difference. If EMLab P&K laboratory is used then an additional comparison is available that helps indicate if the mold may have originated from an indoor source.

Equipment:

Leaaf collects air quality samples using one or more of the following vacuum type sampling pumps:

Zefon International Bio-Pump – Model ZBP-100
Zefon International Bio-Pump Plus – Model ZBP-200
Zefon International Rotary Vane Sampling Pump – Model ZHV00

The pumps are set to pull 15 liters per minute (LPM) of air. The pumps are calibrated with a secondary flow indicator to ensure that the pump is pulling the correct number of LPM. If the calibration check identifies a discrepancy from the desired LPM, the pump is adjusted until the flow indicator reads the desired LPM.

Sampling Media:

The air samples are collected using a bioaerosol spore trap sampling cassette. Specifically an "Air-O-Cell" cassette is used. These cassettes have an expiration date; therefore, the date is checked on each cassette prior to use. Any expired cassettes are discarded.

Sampling Time:

Sampling time may vary based on the site conditions; however, Leaaf typically utilizes a 10 minute sampling time period. The time period is noted on the field documentation.

Field Documentation:
Leaaf utilizes an Air Monitoring Data Sheet (developed by Leaaf) to document project specific information pertaining to the collection of the air samples. This information includes, but is not limited to, sample number, sample location, times and flow rate.

Leaaf typically develops a not-to-scale site field drawing, uses a client provided drawing or an aerial photograph of the site to illustrate the approximate locations where the samples are collected. Any developed drawing is meant to assist in providing an illustrated guide and is not to be considered a legal survey or actual drawing of the property.

Upon completion of the sampling effort, Leaaf's environmental professional completes an environmental chain-of-custody to be used to track the handling of the samples from the field to the laboratory. The samples and the chain-of-custody are placed into a sealable plastic baggy. The bagged samples are then placed into a shipping container (typically a FedEx package) for shipment and/or delivery to the laboratory.

Laboratory Analysis:
The samples are sent to a laboratory that specializes in the analysis of bioaerosol cassettes and bulk samples for fungal type, pollen type, and/or other allergens. The sample media within the cassettes or the bulk samples are placed under a microscope for direct read analysis at varying magnifications. The total number spores, pollen, and/or other allergens are counted and also speciated into various fungal spore, pollen and/or other, types. Refer to the laboratory report for additional information.

Interpretation of Data:
To develop the opinion and conclusions presented in Leaaf's report, the environmental professional evaluates all of the data collected during the course of the Survey. If visual and olfactory evidence is being investigated, then the report will indicate those locations where evidence was noted (typically on the field maps). Visual or olfactory sources are typically indicators of hidden sources of water intrusion. The survey is not intended to identify the sources of water intrusion. The laboratory data collected for the interior is compared to the exterior results to determine if there is a difference in the mold spore, pollen, and other counts identified indoors as compared to background (outdoor) levels. Conclusions are based on the data collected at the time of the survey and may also incorporate previous collected data or knowledge about molds. Depending on the laboratory used additional comparisons may be made concerning the potential for the detected mold to have originated from an indoor source or an outside source.

Limitation of the Sampling and Analysis Method:
The air quality investigation performed by Leaaf is a "snap shot" of the dispersion of mold, pollen, and/or other allergens at the sample locations. The sampling method utilized by this survey can only collect spores, pollen and other allergens that are present at the time of the sample collection; therefore, sampling efforts at a different time or location may result in different types and/or counts of mold, pollen, or other allergens.

This survey was intended to determine if mold spores, pollen and/or other allergens were present within the areas being tested as compared to outdoors. As all individuals do not react to mold spores, pollen or other allergen exposure in the same manner, this report is not intended to determine if the health of an individual is directly affected by mold, pollen or other allergens. An individual experiencing health related issues should contact a licensed medical physician or specialist.

This report is developed by incorporating information that is obtainable within a reasonable time, cost and as directed by the Client and/or Clients representative. Leaaf makes no warranties as to the conclusions or opinions made by others based on the information presented in this report. This report is provided to the Client only, and is intended to assist the Client in making an informed decision about the property. Leaaf's opinions are based on the site conditions at the time of the survey and the results reported by the laboratory.

Some or all of the sampling locations were directed by the Client. This means that the sample quantity or areas to be tested were limited by the Client or the actual location was chosen by the Client.

This report should not be altered or copied without Leaaf's written permission.

Attachment 2

Field Documentation

AIR MONITORING DATA SHEET

Date: 26 December 2012

Leaaf File #: UNO-027

Project Location: Navy ITC Buildings

Constituent of Concern: Airborne Mold

Sample Number	Area	Room	Pump Number	Start		Stop		Total Time	Average Flow	Total Volume
				Flow	Time	Flow	Time			
UNO-027-AOC-011	☐ Interior ☒ Exterior	Exterior – Between Buildings 2 and 3	BP-01	15 lpm	1058	15 lpm	1108	10 min	15 lpm	150 l
UNO-027-AOC-012	☒ Interior ☐ Exterior	Building 2 – 1st Floor - Office 134	BP-05	15 lpm	1101	15 lpm	1111	10 min	15 lpm	150 l
UNO-027-AOC-013	☒ Interior ☐ Exterior	Building 2 – 1st Floor - Stairwell	BP-03	15 lpm	1104	15 lpm	1114	10 min	15 lpm	150 l
UNO-027-AOC-014	☒ Interior ☐ Exterior	Building 2 – 1st Floor - Chief Jones' Office	BP-04	15 lpm	1106	15 lpm	1116	10 min	15 lpm	150 l
UNO-027-AOC-015	☒ Interior ☐ Exterior	Building 2 – 1st Floor - Office 113	BP-02	15 lpm	1107	15 lpm	1117	10 min	15 lpm	150 l
UNO-027-AOC-016	☒ Interior ☐ Exterior	Building 2 – 2nd Floor – Office 211 SE Corner	BP-01	15 lpm	1121	15 lpm	1131	10 min	15 lpm	150 l
UNO-027-AOC-017	☒ Interior ☐ Exterior	Building 2 – 2nd Floor – Office 211 NW Corner	BP-02	15 lpm	1121	15 lpm	1131	10 min	15 lpm	150 l
UNO-027-AOC-018	☒ Interior ☐ Exterior	Building 2 – 2nd Floor –Office 210 NE Corner	BP-03	15 lpm	1124	15 lpm	1134	10 min	15 lpm	150 l
UNO-027-AOC-019	☒ Interior ☐ Exterior	Building 2 – 2nd Floor – Office 210 SW Corner	BP-04	15 lpm	1124	15 lpm	1134	10 min	15 lpm	150 l
UNO-027-AOC-020	☒ Interior ☐ Exterior	Building 2 – 2nd Floor –E of Office 209	BP-05	15 lpm	1126	15 lpm	1136	10 min	15 lpm	150 l
UNO-027-AOC-021	☒ Interior ☐ Exterior	Building 2 – 3rd Floor – Office 311	BP-04	15 lpm	1138	15 lpm	1148	10 min	15 lpm	150 l
UNO-027-AOC-022	☒ Interior ☐ Exterior	Building 2 – 3rd Floor – S of Office 311	BP-01	15 lpm	1140	15 lpm	1150	10 min	15 lpm	150 l
UNO-027-AOC-023	☒ Interior ☐ Exterior	Building 2 – 4th Floor – NE Office	BP-02	15 lpm	1143	15 lpm	1153	10 min	15 lpm	150 l

Calibration Unit: Bio-Pump Flow Meter - ☒ Air-O-Cell ☐ Via-Cell - ☐ 01 ☒ 02 ☐ 03 ☐ 04 ☐ 05

		Start	Stop
BP-01	Cal. Check:	☒ OK ☐ Adjusted	☒ OK
BP-02	Cal. Check:	☒ OK ☐ Adjusted	☒ OK
BP-03	Cal. Check:	☒ OK ☐ Adjusted	☒ OK
BP-04	Cal. Check:	☒ OK ☐ Adjusted	☒ OK
BP-05	Cal. Check:	☒ OK ☐ Adjusted	☒ OK

Media Manufacture: ☒ Air-O-Cell ☐ Via-Cell

Best if used by: 2013-10 or 2013-09

Industrial Hygienist – Environmental Professional: Jim Blazek, Jr.

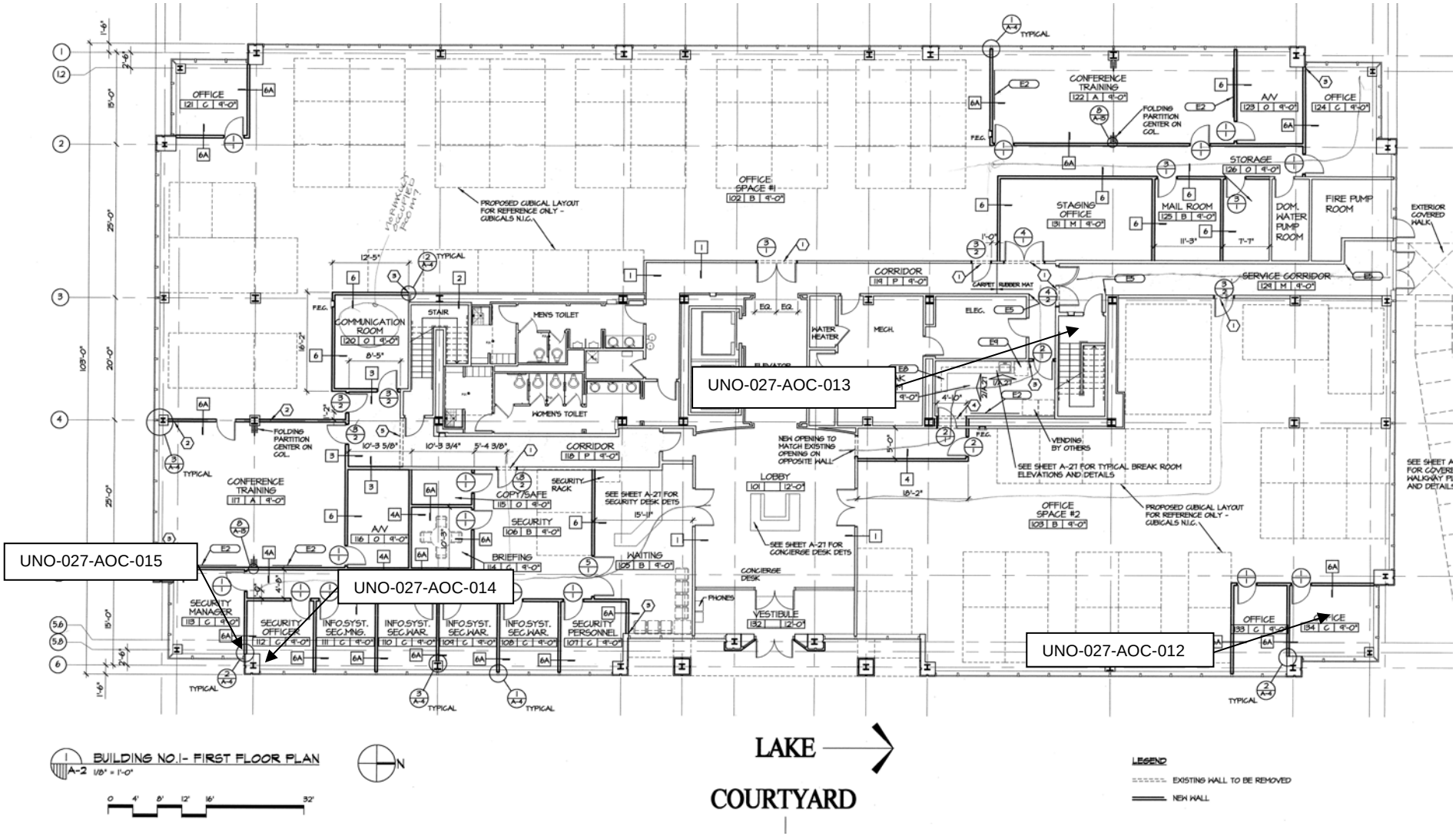
AIR MONITORING DATA SHEET

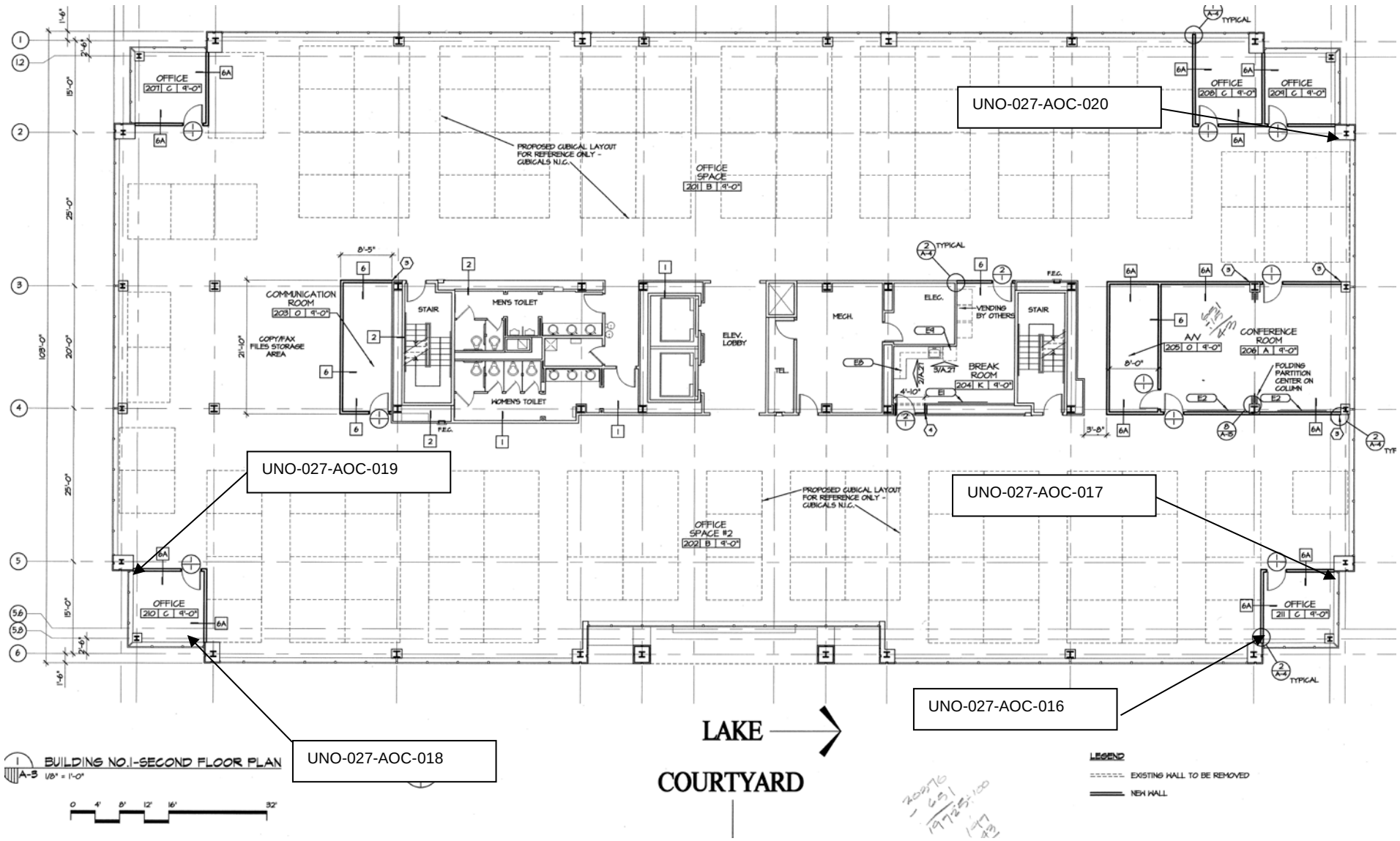
Date: 26 December 2012
Leaaf #: UNO-027

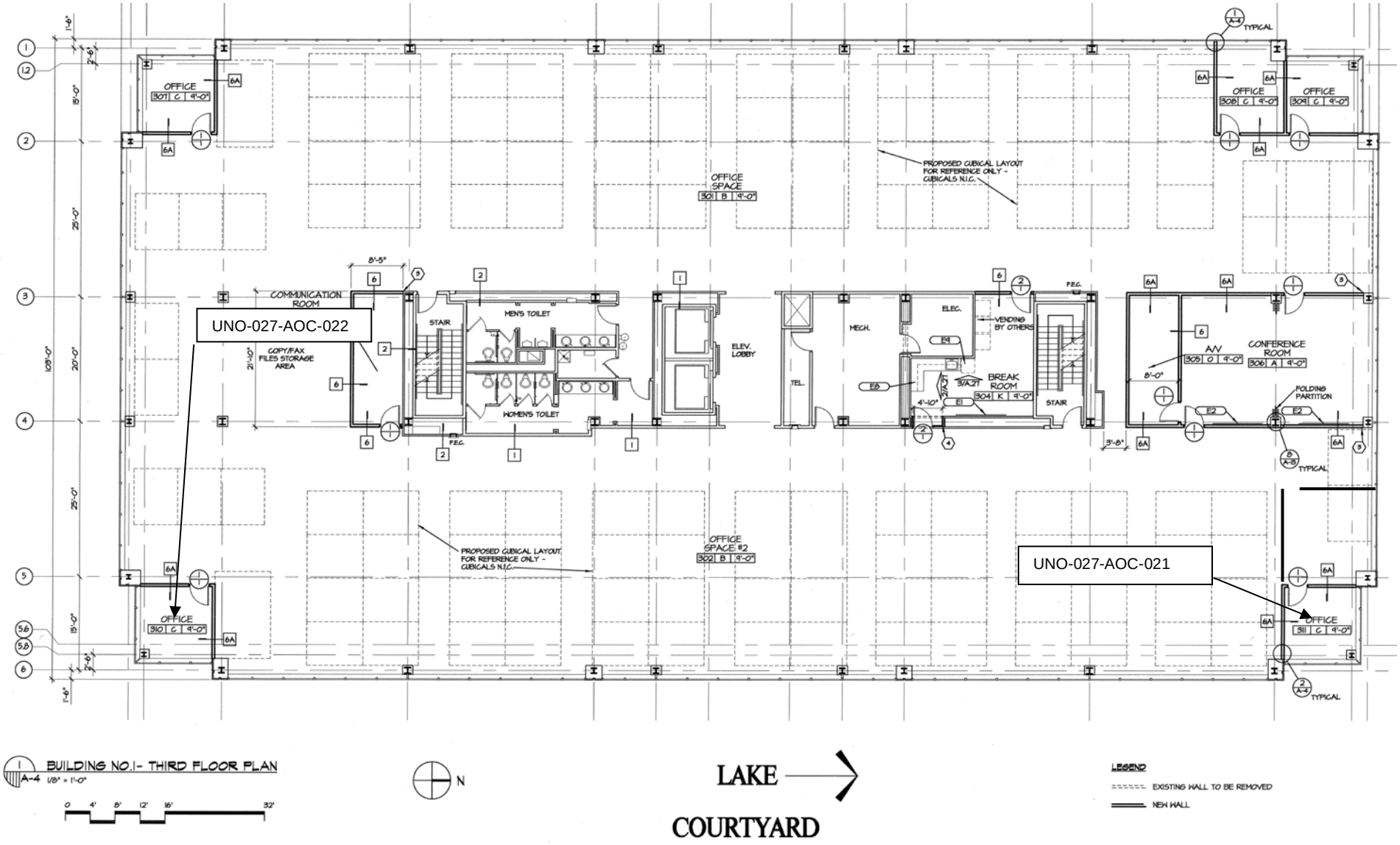
Project Location: Navy ITC Building

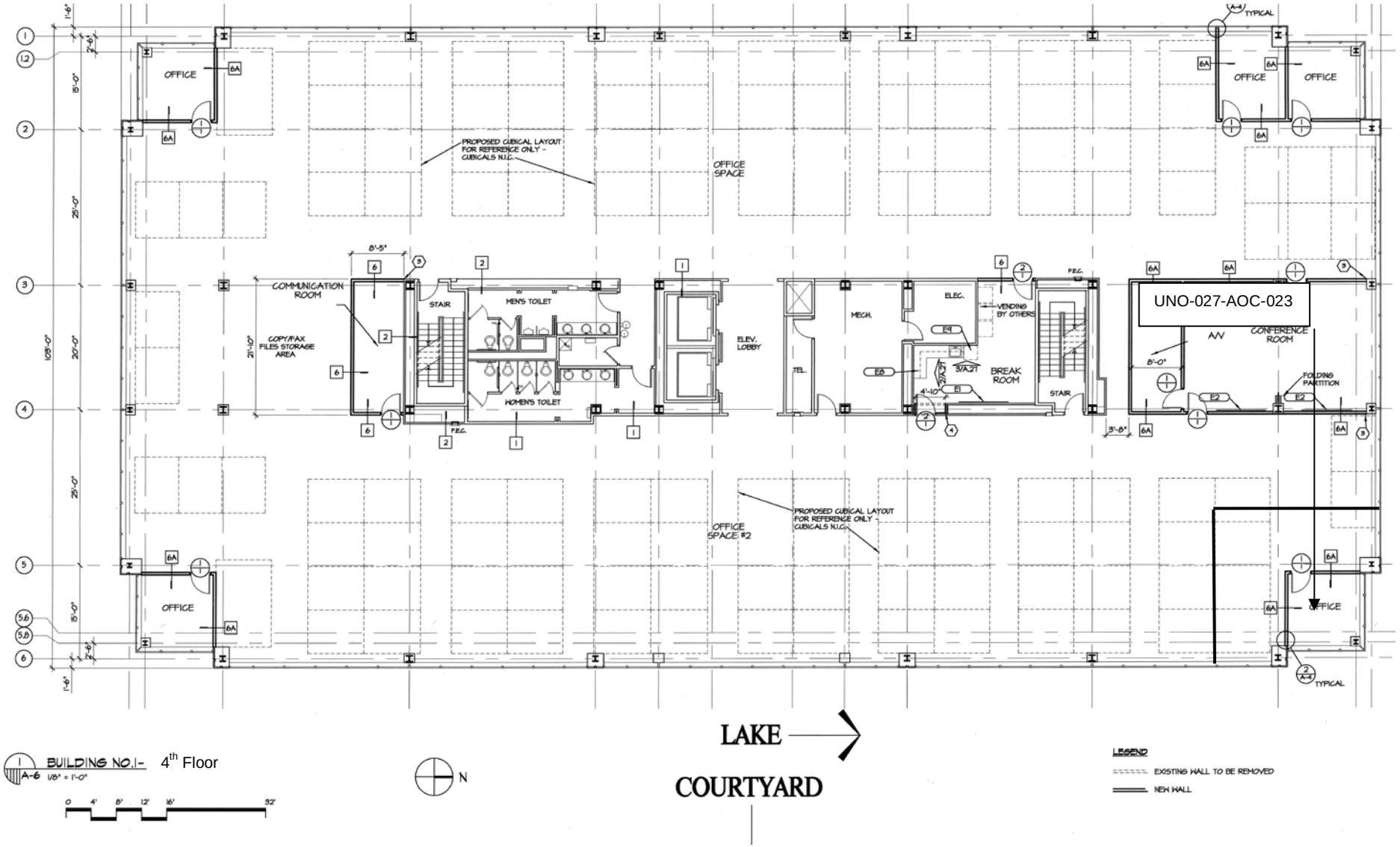
Constituent of Concern: Airborne Mold

Sample Number	Area	Room	Pump Number	Start		Stop		Total Time	Average Flow	Total Volume
				Flow	Time	Flow	Time			
UNO-027-AOC-024	☒ Interior ☐ Exterior	Building 3 – 3rd Floor – S of SW Corner Office	BP-02	15 lpm	1207	15 lpm	1217	10 min	15 lpm	150 l
UNO-027-AOC-025	☒ Interior ☐ Exterior	Building 3 – 3rd Floor – SW Corner Office	BP-05	15 lpm	1208	15 lpm	1218	10 min	15 lpm	150 l
UNO-027-AOC-026	☒ Interior ☐ Exterior	Building 3 – 3rd Floor – E of NW Corner Office	BP-01	15 lpm	1221	15 lpm	1231	10 min	15 lpm	150 l
UNO-027-AOC-027	☒ Interior ☐ Exterior	Building 3 – 3rd Floor – NE Corner Office	BP-02	15 lpm	1224	15 lpm	1234	10 min	15 lpm	150 l
UNO-027-AOC-028	☒ Interior ☐ Exterior	Building 3 – 3rd Floor – Office S of NE Corner Office	BP-04	15 lpm	1224	15 lpm	1234	10 min	15 lpm	150 l
UNO-027-AOC-029	☒ Interior ☐ Exterior	Building 3 – 3rd Floor – W of SE Corner office	BP-05	15 lpm	1227	15 lpm	1237	10 min	15 lpm	150 l
UNO-027-AOC-030	☒ Interior ☐ Exterior	Building 3 – 3rd Floor – Center of Southern Wall	BP-03	15 lpm	1227	15 lpm	1237	10 min	15 lpm	150 l
UNO-027-AOC-031	☒ Interior ☐ Exterior	Building 3 – 2nd Floor – SE Corner Office	BP-01	15 lpm	1240	15 lpm	1250	10 min	15 lpm	150 l
UNO-027-AOC-032	☒ Interior ☐ Exterior	Building 3 – 2nd Floor – W of SE Corner Office	BP-02	15 lpm	1240	15 lpm	1250	10 min	15 lpm	150 l
UNO-027-AOC-033	☒ Interior ☐ Exterior	Building 3 – 1st Floor – SE Corner Computer Office	BP-05	15 lpm	1247	15 lpm	1257	10 min	15 lpm	150 l
UNO-027-AOC-034	☒ Interior ☐ Exterior	Building 3 – 1st Floor – SW Corner	BP-03	15 lpm	1248	15 lpm	1257	10 min	15 lpm	150 l
UNO-027-AOC-035	☒ Interior ☐ Exterior	Building 4 – 1st Floor – SW Corner Office	BP-01	15 lpm	1302	15 lpm	1312	10 min	15 lpm	150 l
UNO-027-AOC-036	☒ Interior ☐ Exterior	Building 4 – 1st Floor – E of SW Corner Office	BP-02	15 lpm	1302	15 lpm	1312	10 min	15 lpm	150 l
UNO-027-AOC-037	☐ Interior ☒ Exterior	Exterior – Between Building 3 and 4	BP-05	15 lpm	1303	15 lpm	1313	10 min	15 lpm	150 l


UNO-027-AOC-013
UNO-027-AOC-015
UNO-027-AOC-014
UNO-027-AOC-012
OFFICE
CONFERENCE TRAINING
A/V
STORAGE
STAGING OFFICE
MAIL ROOM
DOM. WATER PUMP ROOM
FIRE PUMP ROOM
EXTERIOR COVERED WALK
SERVICE CORRIDOR
CORRIDOR
COMMUNICATION ROOM
MEN'S TOILET
WOMEN'S TOILET
STAIR
WATER HEATER
MECH.
ELEC.
ELEVATOR
LOBBY
CONCIERGE DESK
PHONES
VESTIBULE
WAITING
BRIEFING
COPY/SAFE
SECURITY RACK
SECURITY
SECURITY MANAGER
SECURITY OFFICER
INFO.SYST. SEC.MNG.
INFO.SYST. SEC.WAR.
SECURITY PERSONNEL
OFFICE SPACE #1
OFFICE SPACE #2
PROPOSED CUBICAL LAYOUT FOR REFERENCE ONLY - CUBICALS N.I.C.
FOLDING PARTITION CENTER ON COL.
VENDING, BY OTHERS
SEE SHEET A-21 FOR TYPICAL BREAK ROOM ELEVATIONS AND DETAILS
SEE SHEET A-21 FOR SECURITY DESK DETS
SEE SHEET A-21 FOR CONCIERGE DESK DETS
NEW OPENING TO MATCH EXISTING OPENING ON OPPOSITE HALL
CARPET RUBBER MAT
TYPICAL
BUILDING NO.1- FIRST FLOOR PLAN
A-2 1/8" = 1'-0"
N
LAKE
COURTYARD
LEGEND
EXISTING WALL TO BE REMOVED
NEW WALL


UNO-027-AOC-020
UNO-027-AOC-019
UNO-027-AOC-017
UNO-027-AOC-016
UNO-027-AOC-018
OFFICE 207 C 9'-0"
PROPOSED CUBICAL LAYOUT FOR REFERENCE ONLY - CUBICALS N.I.C.
OFFICE SPACE 201 B 9'-0"
OFFICE 208 C 9'-0"
OFFICE 209 C 9'-0"
TYPICAL
COMMUNICATION ROOM 203 O 9'-0"
COPY/FAX FILES STORAGE AREA
STAIR
MEN'S TOILET
WOMEN'S TOILET
ELEV. LOBBY
MECH.
TEL.
ELEC.
VENDING BY OTHERS
BREAK ROOM 204 K 9'-0"
AV 205 O 9'-0"
CONFERENCE ROOM 206 A 9'-0"
FOLDING PARTITION CENTER ON COLUMN
OFFICE SPACE #2 202 B 9'-0"
OFFICE 210 C 9'-0"
OFFICE 211 C 9'-0"
LAKE
COURTYARD
BUILDING NO.1-SECOND FLOOR PLAN
1/8" = 1'-0"
LEGEND
EXISTING WALL TO BE REMOVED
NEW WALL


UNO-027-AOC-022
UNO-027-AOC-021
OFFICE 301 C 9'-0"
OFFICE SPACE 301 B 9'-0"
PROPOSED CUBICAL LAYOUT FOR REFERENCE ONLY - CUBICALS N.I.C.
OFFICE 308 C 9'-0"
OFFICE 309 C 9'-0"
TYPICAL
COMMUNICATION ROOM
COPY/FAX FILES STORAGE AREA
STAIR
MEN'S TOILET
WOMEN'S TOILET
ELEV. LOBBY
MECH.
TEL.
ELEC.
VENDING BY OTHERS
BREAK ROOM 304 K 9'-0"
AV 305 O 9'-0"
CONFERENCE ROOM 306 A 9'-0"
FOLDING PARTITION
OFFICE SPACE #2 302 B 9'-0"
OFFICE 310 C 9'-0"
OFFICE 311 C 9'-0"
LAKE
COURTYARD
LEGEND
EXISTING WALL TO BE REMOVED
NEW WALL
BUILDING NO.1- THIRD FLOOR PLAN
1/8" = 1'-0"


OFFICE
PROPOSED CUBICAL LAYOUT FOR REFERENCE ONLY - CUBICALS N.I.C.
OFFICE SPACE
TYPICAL
OFFICE
OFFICE
COMMUNICATION ROOM
COPY/FAX FILES STORAGE AREA
STAIR
MEN'S TOILET
WOMEN'S TOILET
ELEV. LOBBY
MECH.
ELEC.
VENDING BY OTHERS
TEL.
BREAK ROOM
STAIR
UNO-027-AOC-023
A/V
CONFERENCE ROOM
FOLDING PARTITION
OFFICE SPACE #2
PROPOSED CUBICAL LAYOUT FOR REFERENCE ONLY - CUBICALS N.I.C.
OFFICE
OFFICE
TYPICAL
LAKE
COURTYARD
BUILDING NO.1 - 4th Floor
1/8" = 1'-0"
N
LEGEND
EXISTING WALL TO BE REMOVED
NEW WALL

Attachment 3

Analytical Results and Chain of Custody

EMLab P&K
A TestAmerica Company

Report for:

Mr. Jim Blazek
Leaaf Environmental, LLC
812 Rupp St.
Gretna, LA 70053

Regarding: Project: UNO-NAVY Buildings 2-4
EML ID: 1009621

Approved by:

Lab Manager
Baluswamy Krishnan

Dates of Analysis:
Spore trap analysis: 12-31-2012

Service SOPs: Spore trap analysis (1038)
AIHA accredited service

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
6301 NW 5th Way, Suite 2850, Ft. Lauderdale, FL 33309
(877) 711-8400 Fax (954) 776-8485 www.emlab.com

Client: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	UNO-027-AOC-011: Exterior-Between Buildings 2 and 3				UNO-027-AOC-012: Building 2-1st Floor-Office 134				UNO-027-AOC-013: Building 2-1st Floor-Stairwell				UNO-027-AOC-014: Building 2-1st Floor-Chief Jones' Office			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	4511558-1				4511559-1				4511560-1				4511561-1			
Analysis Date:	12/31/2012				12/31/2012				12/31/2012				12/31/2012			
Sample volume (liters)	150				150				150				150			
Background debris (1-4+)††	1+				2+				2+				2+			
	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%
Hyphal fragments	1	7	7	n/a	3	20	7	n/a	4	27	7	n/a	4	27	7	n/a
Pollen									1	7	7	n/a				
§ TOTAL FUNGAL SPORES	126	840	n/a	100	3	20	n/a	100	38	250	n/a	100	10	67	n/a	100
Alternaria													1	7	7	10
Ascospores	5	33	7	4					10	67	7	26				
Basidiospores	120	800	7	95					3	20	7	8	4	27	7	40
Bipolaris/Drechslera group													1	7	7	10
Chaetomium																
Cladosporium					3	20	7	100	1	7	7	3	2	13	7	20
Curvularia									2	13	7	5				
Other brown									3	20	7	8	1	7	7	10
Penicillium/Aspergillus types									17	110	7	45				
Pestalotiopsis	1	7	7	1												
Pithomyces									1	7	7	3				
Rusts									1	7	7	3				
Smuts, Periconia, Myxomycetes													1	7	7	10
Stachybotrys																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

*The DL/m3 has been rounded to a whole number.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
6301 NW 5th Way, Suite 2850, Ft. Lauderdale, FL 33309
(877) 711-8400 Fax (954) 776-8485 www.emlab.com

Client: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	UNO-027-AOC-015: Building 2-1st Floor-Office 113				UNO-027-AOC-016: Building 2-2nd Floor-Office 211 SE Corner				UNO-027-AOC-017: Building 2-2nd Floor-Office 211 NW Corner				UNO-027-AOC-018: Building 2-2nd Floor-Office 210 NE Corner			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	4511562-1				4511563-1				4511564-1				4511565-1			
Analysis Date:	12/31/2012				12/31/2012				12/31/2012				12/31/2012			
Sample volume (liters)	150				150				150				150			
Background debris (1-4+)††	2+				2+				2+				2+			
	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%
Hyphal fragments	2	13	7	n/a	1	7	7	n/a								
Pollen													1	7	7	n/a
§ TOTAL FUNGAL SPORES	14	93	n/a	100	3	20	n/a	100	3	20	n/a	100	1	7	n/a	100
Alternaria																
Ascospores	1	7	7	7												
Basidiospores	1	7	7	7	1	7	7	33	1	7	7	33				
Bipolaris/Drechslera group																
Chaetomium																
Cladosporium	4	27	7	29	1	7	7	33								
Coelomycetes																
Curvularia	2	13	7	14					1	7	7	33				
Nigrospora	1	7	7	7												
Other brown	1	7	7	7									1	7	7	100
Penicillium/Aspergillus types																
Pithomyces	3	20	7	21												
Smuts, Periconia, Myxomycetes	1	7	7	7	1	7	7	33	1	7	7	33				
Stachybotrys																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

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Client: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	UNO-027-AOC-019: Building 2-2nd Floor-Office 210 SW Corner				UNO-027-AOC-020: Building 2-2nd Floor-E of Office 209				UNO-027-AOC-021: Building 2-3rd Floor-Office 311				UNO-027-AOC-022: Building 2-2nd Floor-S of Office 311			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	4511566-1				4511567-1				4511568-1				4511569-1			
Analysis Date:	12/31/2012				12/31/2012				12/31/2012				12/31/2012			
Sample volume (liters)	150				150				150				150			
Background debris (1-4+)††	3+				2+				2+				2+			
	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%
Hyphal fragments	7	47	7	n/a									1	7	7	n/a
Pollen																
§ TOTAL FUNGAL SPORES	1	7	n/a	100	3	20	n/a	100	1	7	n/a	100	4	27	n/a	100
Alternaria																
Ascospores	1	7	7	100	1	7	7	33								
Basidiospores					1	7	7	33					1	7	7	25
Bipolaris/Drechslera group																
Chaetomium																
Cladosporium									1	7	7	100				
Coelomycetes																
Curvularia													1	7	7	25
Epicoccum																
Nigrospora													1	7	7	25
Other brown																
Penicillium/Aspergillus types					1	7	7	33								
Smuts, Periconia, Myxomycetes													1	7	7	25
Stachybotrys																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

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Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	UNO-027-AOC-023: Building 2-4th Floor-NE Office				UNO-027-AOC-024: Building 3-3rd Floor-S of SW Corner Office				UNO-027-AOC-025: Building 3-3rd Floor-SW Corner Office				UNO-027-AOC-026: Building 3-3rd Floor-E of NW Corner Office			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	4511570-1				4511571-1				4511572-1				4511573-1			
Analysis Date:	12/31/2012				12/31/2012				12/31/2012				12/31/2012			
Sample volume (liters)	150				150				150				150			
Background debris (1-4+)††	2+				2+				2+				2+			
	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%
Hyphal fragments					1	7	7	n/a					2	13	7	n/a
Pollen																
§ TOTAL FUNGAL SPORES	3	20	n/a	100	2	13	n/a	100	1	7	n/a	100	6	40	n/a	100
Alternaria																
Ascospores																
Basidiospores	2	13	7	67									2	13	7	33
Bipolaris/Drechslera group																
Chaetomium																
Cladosporium	1	7	7	33									2	13	7	33
Coelomycetes																
Curvularia													2	13	7	33
Epicoccum																
Nigrospora					1	7	7	50								
Other brown									1	7	7	100				
Penicillium/Aspergillus types																
Stachybotrys																
Torula					1	7	7	50								

Comments:

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*The DL/m3 has been rounded to a whole number.

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Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	UNO-027-AOC-027: Building 3-3rd Floor-NE Corner Office				UNO-027-AOC-028: Building 3-3rd Floor-Office S of NE Corner Office				UNO-027-AOC-029: Building 3-3rd Floor-W of SE Corner Office				UNO-027-AOC-030: Building 3-3rd Floor-Center of Southern Wall			
Comments (see below)	None				A				None				None			
Lab ID-Version‡:	4511574-1				4511575-1				4511576-1				4511577-1			
Analysis Date:	12/31/2012				12/31/2012				12/31/2012				12/31/2012			
Sample volume (liters)	150				150				150				150			
Background debris (1-4+)††	2+				2+				2+				2+			
	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%
Hyphal fragments	1	7	7	n/a	1	7	7	n/a					1	7	7	n/a
Pollen																
§ TOTAL FUNGAL SPORES	2	13	n/a	100		< 7	n/a	100	2	13	n/a	100	5	33	n/a	100
Alternaria																
Ascospores																
Basidiospores													1	7	7	20
Bipolaris/Drechslera group																
Chaetomium																
Cladosporium	1	7	7	50					1	7	7	50	1	7	7	20
Coelomycetes																
Curvularia									1	7	7	50	1	7	7	20
Epicoccum	1	7	7	50												
Nigrospora													1	7	7	20
Other brown																
Penicillium/Aspergillus types																
Pithomyces													1	7	7	20
Stachybotrys																

Comments: A) No spores detected.

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

*The DL/m3 has been rounded to a whole number.

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Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	UNO-027-AOC-031: Building 3-2nd Floor-SE Corner Office				UNO-027-AOC-032: Building 3-2nd Floor-W of SE Corner Office				UNO-027-AOC-033: Building 3-1st Floor-SE Corner Computer Office				UNO-027-AOC-034: Building 3-1st Floor-SW Corner Office			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	4511578-1				4511579-1				4511580-1				4511581-1			
Analysis Date:	12/31/2012				12/31/2012				12/31/2012				12/31/2012			
Sample volume (liters)	150				150				150				150			
Background debris (1-4+)††	2+				2+				2+				2+			
	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%
Hyphal fragments					1	7	7	n/a	2	13	7	n/a	7	47	7	n/a
Pollen																
§ TOTAL FUNGAL SPORES	1	7	n/a	100	3	20	n/a	100	1	7	n/a	100	14	93	n/a	100
Alternaria													1	7	7	7
Ascospores																
Basidiospores																
Bipolaris/Drechslera group																
Chaetomium													9	60	7	64
Cladosporium									1	7	7	100				
Coelomycetes																
Curvularia					1	7	7	33					1	7	7	7
Other brown	1	7	7	100	1	7	7	33					1	7	7	7
Penicillium/Aspergillus types													1	7	7	7
Pithomyces													1	7	7	7
Smuts, Periconia, Myxomycetes					1	7	7	33								
Stachybotrys																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

*The DL/m3 has been rounded to a whole number.

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Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	UNO-027-AOC-035: Building 4-1st Floor-SW Corner Office				UNO-027-AOC-036: Building 4-1st Floor-E of SW Corner Office				UNO-027-AOC-037: Exterior-Between Building 3 and 4			
Comments (see below)	None				A				None			
Lab ID-Version‡:	4511582-1				4511583-1				4511584-1			
Analysis Date:	12/31/2012				12/31/2012				12/31/2012			
Sample volume (liters)	150				150				150			
Background debris (1-4+)††	2+				1+				1+			
	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%	Count	Count/m3	DL/m3*	%
Hyphal fragments	2	13	7	n/a	2	13	7	n/a	4	27	7	n/a
Pollen												
§ TOTAL FUNGAL SPORES	3	20	n/a	100		< 7	n/a	100	113	750	n/a	100
Alternaria												
Ascospores									12	80	7	11
Basidiospores	1	7	7	33					76	510	7	67
Bipolaris/Drechslera group												
Chaetomium												
Cladosporium												
Coelomycetes									16	110	7	14
Curvularia												
Epicoccum												
Other brown									3	20	7	3
Other colorless									1	7	7	1
Penicillium/Aspergillus types	2	13	7	67					4	27	7	4
Pestalotiopsis									1	7	7	1
Stachybotrys												

Comments: A) No spores detected.

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

*The DL/m3 has been rounded to a whole number.

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Introduction

Molds are a natural and important part of our environment. They are ubiquitous and are found virtually everywhere. Molds produce tiny spores to reproduce. These spores can be found in both indoor and outdoor air and on indoor and outdoor surfaces. When mold spores land on a damp spot, they may begin growing and digesting whatever they are growing on in order to survive, leading to adverse conditions. In response to increasing public concern, a number of government authorities, including the United States EPA, California Department of Health Services and New York City Department of Health, have developed recommendations and guidelines for assessment and remediation of mold. Websites for these organizations can be found at the end of this report.

While it is generally accepted that molds can be allergenic and can lead to adverse health conditions in susceptible people, unfortunately there are no widely accepted or regulated interpretive standards or numerical guidelines for the interpretation of microbial data. The absence of standards often makes interpretation of microbial data difficult and controversial. This report has been designed to provide some basic interpretive information using certain assumptions and facts that have been extracted from a number of peer reviewed texts, such as the American Conference of Governmental Industrial Hygienists (ACGIH). In the absence of standards, the user must determine the appropriateness and applicability of this report to any given situation. Identification of the presence of a particular fungus in an indoor environment does not necessarily mean that the building occupants are or are not being exposed to antigenic or toxic agents.

None of the information contained herein should be construed as medical advice or a call to action for evacuation or remediation. Only a qualified physician should make any decision relative to medical significance.

EMLab P&K did not conduct the site investigation, provide consulting or collect the samples referenced in this report. EMLab P&K's primary involvement in this project is to provide analytical results for the samples submitted. The data presented in this report are based on the samples and accompanying information provided and represents concentrations at a point in time under the conditions sampled.

EMLab P&K's standard terms and conditions govern all aspects of this report.

Materials

Please refer to the chain of custody included with this report.

Methods

1. **Surface Samples – Swab, Dust, Tape and Bulk Samples**
   Swab, Dust and Tape samples are mounted on a glass slide and observed under a bright field microscope for either Qualitative or Quantitative Examination. A bulk sample is also simultaneously observed under a stereomicroscope to look for signs of any visible discoloration or fungal growth, which is then mounted and observed under a bright field microscope for either Qualitative or Quantitative Examination. The samples are analyzed at a minimum of 200X magnification and up to a 1000X magnification. In the qualitative

examination, the prepared samples are observed for the presence of any structures or skewing of spore distribution that may indicate growth in the sample being analyzed. In the quantitative examination, the mold spores detected in the sample are counted and reported as spores per cm^2, spores per gram (or 1000mg), or spores per swab/wipe, etc depending on the sample type. These methodologies do not differentiate between viable and non-viable fungal spores.

2. Air Samples- Spore Trap Device

Spore traps are a unique sampling device designed for the rapid collection and analysis of a wide range of airborne particulates, including fungal spores. While analyzing the sample, the analyst takes a number of variables into account to select the proper analytical method to accurately determine the densities of the various spores on the trace. The densities of the debris and the spores on the trace will determine the approach to analyzing the sample. In general, the sample is directly mounted under the microscope and the various airborne particles detected are counted at a minimum of 200X magnification and up to 1000X magnification, with the entire trace (100% of the sample) being analyzed at 200X or 600X. This method does not differentiate between viable and non-viable fungal spores. This technique does not allow for the differentiation between *Aspergillus* and *Penicillium* spores. Additionally, depending on morphology, other non-distinctive spores are reported in categories such as ascospores or basidiospores. All slides are graded with the following debris scale for data qualification.

Debris Rating	Description	Interpretation
None	No particles detected.	No particulates on slide. The absence of particulates could indicate improper sampling as most air samples typically capture some particles.
<1+	Good visibility. A few particles detected.	Reported values are not affected by debris.
1+	Good visibility. No crowding of particles.	
2+	Decent visibility. Particles beginning to crowd.	Non-microbial particulates can mask the presence of fungal spores. As a result, actual values could be higher than the numbers reported. Higher debris ratings increase the probability of this bias.
3+	Decent visibility. Particles beginning to crowd.	
4+	Poor visibility. Particles beginning to overlap.	Excessive debris detected in the sample. Counts reported may vary drastically and actual values could be higher than the numbers reported. The sample should be collected at a shorter time interval, or other measures taken to reduce the collection of non-microbial debris. In addition, a >4+ rating will only allow for a count from the perimeter of the slide.
>4+	Poor visibility. Particles overlapping.	

3. Comments

Comments identify issues or events that are relevant to your analytical results. A comment includes information about any peculiar observation or situation encountered while analyzing the sample. In each case, the comments provide significant information vital to the interpretation of the laboratory data.

4. Data Interpretation

According to ACGIH, "Data from individual sampling episodes is often interpreted with respect to baseline data from other environments or the same environment under anticipated low exposure conditions." In the absence of established acceptable exposure limits, it is often necessary to use a comparison standard when interpreting data. In this instance, it will be necessary to sample the suspect area as well as a non-suspect area.

According to ACGIH, "...active fungal growth in indoor environments is inappropriate and may lead to exposure and adverse health effects."

a. Total Fungal Spores

According to ACGIH, ".... differences that can detected with manageable sample sizes are likely to be in 10- fold multiplicative steps (e.g., 100 versus 1000...)". Following this logic, if total fungal spores are ten (10) times greater in the sample from a suspect area than in the negative control sample collected from a non-suspect area, then that sample area may be a fungal amplification site.

b. Mycelial Fragments

Mycelium is a fungal mass that constitutes the vegetative or living body of a fungus. Following the same logic above, if total mycelial fragments are ten (10) times greater in the suspect sample than in the negative control, then the sample area is considered to be a fungal amplification site. The presence of mycelial fragments provides evidence of microbial growth.

c. Mycotoxins

Molds can produce toxic substances called mycotoxins. More tha n 200 mycotoxins have been identified from common molds, and many more remain to be identified. Some of the molds that are known to produce mycotoxins are commonly found in moisture-damaged buildings. Exposure pathways for mycotoxins can include inhalation, ingestion, or skin contact. Although some mycotoxins are well known to affect humans and have been shown to be responsible for human health effects, for many mycotoxins, little information is available, and in some cases research is ongoing. Some molds can produce several toxins, and some molds produce mycotoxins only under certain environmental conditions. The presence of mold in a building does not necessarily mean that mycotoxins are present or that they are present in large quantities.

d. Water Indicator Molds

Certain authorities identify certain molds whose presence indicates excessive moisture. The presence of a few spores of indicator mold should be interpreted with caution. Additionally, it should be recognized that these named molds are not necessarily the only ones of potential significance.

e. Mold Glossary

Specific characteristics of the individual molds listed in the report are presented in Table 1.

f. Useful Resources

i. Guidelines on Assessment and Remediation of Fungi in Indoor Environments, New York City Department of Health.
www.ci.nyc.ny.us/html/doh/html/epi/moldrpt1.html

ii. Facts about Mold, New York City Department of Health.
www.ci.nyc.ny.us/html/doh/html/epi/epimold.html

iii. Mold Resources, United States Environmental Protection Agency. http://www.epa.gov/mold/moldresources.html
iv. Mold in My Home, What do I do? California Department of Health Services. www.asbestos.org/Microbial/index.html

Table 1: Summary of Specific Mold Characteristics

Fungi	Environmental Indicator		Typically Found
Alternaria			*Alternaria* is one of the more common fungi found in nature. It is found growing indoors on a variety of substrates including wallboards, painted walls, etc.
Arthrinium			*Arthrinium* is a saprobe and is found on plants. It is rarely found growing indoors.
Ascospores			Ascospores are ubiquitous in nature and are commonly found in the outdoor environment. Some fungi that belong to the ascomycete family include the sexual forms of *Penicillium/ Aspergillus*, *Chaetomium*, etc that may be frequently found growing on damp substrates.
Aureobasidium			*Aureobasidium* is commonly found in a variety of soils. Indoors, it is commonly found where moisture accumulates, especially bathrooms, and kitchens, on shower curtains, tile grout, windowsills, textiles, and liquid waste materials.
Basidiospores			Basidiospores are Saprophytes and plant pathogens and are commonly found in gardens, forests, and woodlands. They also include organisms that are the agent of "dry rot," and other fungi that cause white and brown wood rot, which may grow and destroy the structural wood of buildings.
Bipolaris/ Dreschlera			*Bipolaris* and *Dreschlera* are usually found associated with plant debris, and soil. They are plant pathogens of numerous plants, particularly grasses. *Bipolaris* and *Dreschlera* can grow indoors on a variety of substrates.
Botrytis			*Botrytis* is commonly found in tropical and temperate climates growing on vegetative matter. They may be found indoors in conjugation with indoor plants, fruits and vegetables.
Chaetomium			*Chaetomium* is often found on materials containing cellulose such as sheetrock paper, or other wet materials.
Cladosporium			*Cladosporium* is a common outdoor mold. They are commonly found on dead plants, food, textiles, and a variety of other surfaces. Indoors, they can grow on a variety of substrates including textiles, wood, moist windowsills, etc. It can grow at 0°C and is associated with refrigerated foods.
Curvularia			*Curvularia* is found on plant materials and is considered a saprobe. Indoors, they can grow on a variety of substrates.
Epicoccum			*Epicoccum* is a saprophyte and considered a weekly parasitic secondary invader of plants. They tend to colonize continuously damp materials such as damp wallboard and fabrics.
Fusarium			*Fusarium* requires very wet conditions and is frequently isolated from plants and grains. They colonize continuously damp materials such as damp wallboard and water reservoirs for humidifiers and drip pans.

Memnoniella			*Memnoniella* can be found growing on a variety of cellulose-containing materials.
Nigrospora			*Nigrospora* is especially abundant in warm climates and is rarely found growing indoors.
Oidium/ Peronospora			*Oidium* and *Peronospora* are plant pathogens and are not found growing indoors.
Penicillium/ Aspergillus			*Penicillium* and *Aspergillus* are ubiquitous in environment. *Aspergillus* tends to colonize continuously damp materials such as damp wallboard and fabrics. *Penicillium* is commonly found in house dusts, wallpaper, decaying fabrics, moist clipboards, etc.
Pithomyces/ Ulocladium			*Pithomyces* is commonly found on grass and decaying plant material and are rarely found growing indoors. *Ulocladium* has a high water requirement and therefore colonizes continuously damp materials such as damp wallboard and fabrics.
Rusts			Rusts are plant pathogens and only grow on host plants.
Smuts/ *Periconia*/ Myxomycetes			Smuts and Myxomycetes are parasitic plant pathogens that require a living host. Smuts do not usually grow indoors. *Periconia* are rarely found growing indoors. Myxomycetes are occasionally found indoors, but rarely growing.
Stachybotrys			*Stachybotrys* are commonly found indoors on wet materials containing cellulose, such as wallboard, jute, wicker, straw baskets, and other paper materials.
Stemphylium			*Stemphylium* is either parasitic or saprophytic and is rarely found growing indoors.
Torula			*Torula* can grow indoors on cellulose containing materials such as wallboard, jute, wicker, straw baskets, and other paper materials.
Other brown/ colorless			An uncharacteristic fungal spore that does not lend itself to classification via direct microscopy.

 Potential Water Intrusion/Indicator Mold

 Potential Water Intrusion/Indicator Mold Capable of Mycotoxin Production

Quality Programs

The EMLab P&K's laboratory network is staffed with highly trained analysts, the majority of which hold advanced degrees. The reliability of test results depends on many factors such as the personnel performing the tests, environmental conditions, selection and validation of test methods, equipment functioning, as well as the sampling, storage and handling of test items, all of which are a reflection of the overall quality system of the laboratory.

EMLab P&K has modeled its quality system after ISO 17025, General Requirements for the Competence of Testing and Calibration Laboratories, one of the most stringent sets of standards in the industry, to ensure that its customers receive the highest standard of accuracy, reliability, and impartiality that they have come to expect from the leader in the environmental industry. EMLab P&K's laboratories adherence to the standards set forth in ISO 17025 has been validated and formally recognized through accreditations granted by an independent outside agency, American Industrial Hygiene Association (AIHA), on a site by site basis. As an additional measure to demonstrate its competency to perform the analyses it offers to its clients, EMLab P&K laboratories

also participate in a variety of different proficiency testing programs, including the Environmental Microbiology Proficiency Analytical Testing Program (EMPAT) sponsored by the American Industrial Hygiene Association.

As part of our continuous commitment to excellence, EMLab P&K laboratories are also inspected, licensed and/or accredited by a number of governmental agencies and independent associations in addition to those already mentioned above. The scope of services, accreditation certificates, and proficiency results can all be accessed at www.emlabpk.com.

References

1. Bioaerosols: Assessment and Control. Janet Macher, Ed., American Conference of Government Industrial Hygienists, Cincinnati, OH (1999).

2. EPA: The Inside Story. A Guide to Indoor Air Quality, United States Environmental Protection Agency and the United States Consumer Product Safety Commission, Washington DC (1995).

3. Health Canada: Exposure Guidelines for Residential Indoor Air Quality. Environmental Health Directorate. Health Protection Branch, Health Canada, Ottawa, Ontario (1989).

4. IIRC: Standard and Reference Guide for Professional Water Damage Restoration, 2nd Ed. Institute of Inspection, Cleaning and Restoration, Vancouver, WA (1999).

5. Field Guide for the Determination of Bio logical Contaminants in Environmental Samples. American Industrial Hygiene Association, Fairfax, VA (1996).

6. Standards of Practice for the Assessment of Indoor Environmental Quality, Volume I: Mold Sampling, Assessment of Mold Contamination. Indoor Environmental Standards Organization (2002).

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Client: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: UNO-027-AOC-011, Exterior-Between Buildings 2 and 3

Fungi Identified	Outdoor data	Typical Outdoor Data for: December in Louisiana (n‡=303)†						Typical Outdoor Data for: The entire year in Louisiana (n‡=3927)†					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	7	13	26	53	110	42	13	13	40	110	210	57
Bipolaris/Drechslera group	-	7	13	13	40	87	26	7	13	27	53	93	37
Chaetomium	-	7	7	14	40	110	10	7	7	13	53	120	8
Cladosporium	-	80	160	560	1,800	3,800	94	96	210	830	2,800	5,500	96
Coelomycetes	-	-	-	-	-	-	< 1	-	-	-	-	-	< 1
Curvularia	-	11	13	29	93	160	38	13	13	40	160	390	51
Nigrospora	-	7	13	27	40	67	34	7	13	27	67	110	39
Other brown	-	13	13	27	40	66	33	7	13	27	53	80	27
Other colorless	-	13	13	40	93	140	9	7	13	29	86	200	8
Penicillium/Aspergillus types	-	27	53	160	570	1,500	76	53	80	270	890	1,800	79
Pestalotiopsis	7	-	-	-	-	-	1	7	7	13	40	40	3
Stachybotrys	-	-	-	-	-	-	3	7	13	27	170	1,200	3
Torula	-	7	13	13	40	130	10	7	13	20	49	86	16
Seldom found growing indoors**													
Ascospores	33	27	44	160	520	1,300	83	40	80	340	1,200	2,500	93
Basidiospores	800	80	160	640	3,100	6,800	97	87	200	880	3,900	9,400	98
Rusts	-	7	7	13	38	52	7	7	7	13	53	57	10
Smuts, Periconia, Myxomycetes	-	13	15	40	110	190	69	13	27	60	170	300	75
§ TOTAL SPORES/m3	840												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Client: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: UNO-027-AOC-037, Exterior-Between Building 3 and 4

Fungi Identified	Outdoor data	Typical Outdoor Data for: December in Louisiana (n‡=303)†						Typical Outdoor Data for: The entire year in Louisiana (n‡=3927)†					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	7	13	26	53	110	42	13	13	40	110	210	57
Bipolaris/Drechslera group	-	7	13	13	40	87	26	7	13	27	53	93	37
Chaetomium	-	7	7	14	40	110	10	7	7	13	53	120	8
Cladosporium	-	80	160	560	1,800	3,800	94	96	210	830	2,800	5,500	96
Coelomycetes	110	-	-	-	-	-	< 1	-	-	-	-	-	< 1
Curvularia	-	11	13	29	93	160	38	13	13	40	160	390	51
Nigrospora	-	7	13	27	40	67	34	7	13	27	67	110	39
Other brown	20	13	13	27	40	66	33	7	13	27	53	80	27
Other colorless	7	13	13	40	93	140	9	7	13	29	86	200	8
Penicillium/Aspergillus types	27	27	53	160	570	1,500	76	53	80	270	890	1,800	79
Pestalotiopsis	7	-	-	-	-	-	1	7	7	13	40	40	3
Stachybotrys	-	-	-	-	-	-	3	7	13	27	170	1,200	3
Torula	-	7	13	13	40	130	10	7	13	20	49	86	16
Seldom found growing indoors**													
Ascospores	80	27	44	160	520	1,300	83	40	80	340	1,200	2,500	93
Basidiospores	510	80	160	640	3,100	6,800	97	87	200	880	3,900	9,400	98
Rusts	-	7	7	13	38	52	7	7	7	13	53	57	10
Smuts, Periconia, Myxomycetes	-	13	15	40	110	190	69	13	27	60	170	300	75
§ TOTAL SPORES/m3	750												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Client: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: UNO-027-AOC-011: Exterior-Between Buildings 2 and 3

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Ascospores	33	13 - 190 - 5,400	76
Basidiospores	800	13 - 430 - 22,000	92
Cladosporium	< 7	27 - 480 - 10,000	91
Penicillium/Aspergillus types	< 7	13 - 160 - 2,600	69
Pestalotiopsis	7	7 - 13 - 53	2
Smuts, Periconia, Myxomycetes	< 7	7 - 47 - 970	64
Total	840		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: UNO-027-AOC-012: Building 2-1st Floor-Office 134

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.4000 Critical value: N/A Outside Similar: N/A	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	20
Total	20

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C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-013: Building 2-1st Floor-Stairwell

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 29%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.2958 Critical value: 0.5833 Outside Similar: No	Score: 118 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Ascospores	67
Basidiospores	20
Cladosporium	7
Curvularia	13
Other brown	20
Penicillium/Aspergillus types	110
Pithomyces	7
Rusts	7
Total	250

Location: UNO-027-AOC-014: Building 2-1st Floor-Chief Jones' Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.1012 Critical value: 0.6190 Outside Similar: No	Score: 110 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	7
Basidiospores	27
Bipolaris/Drechslera group	7
Cladosporium	13
Other brown	7
Smuts, Periconia, Myxomycetes	7
Total	67

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-015: Building 2-1st Floor-Office 113

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 11%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: -0.1708 Critical value: 0.5833 Outside Similar: No	Score: 119 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Ascospores	7
Basidiospores	7
Cladosporium	27
Curvularia	13
Nigrospora	7
Other brown	7
Pithomyces	20
Smuts, Periconia, Myxomycetes	7
Total	93

Location: UNO-027-AOC-016: Building 2-2nd Floor-Office 211 SE Corner

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.1000 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	7
Cladosporium	7
Smuts, Periconia, Myxomycetes	7
Total	20

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Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-017: Building 2-2nd Floor-Office 211 NW Corner

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.1000 Critical value: 0.8000 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K	
Basidiospores					7
Curvularia					7
Smuts, Periconia, Myxomycetes					7
Total					20

Location: UNO-027-AOC-018: Building 2-2nd Floor-Office 210 NE Corner

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.4000 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K	
Other brown					7
Total					7

Location: UNO-027-AOC-019: Building 2-2nd Floor-Office 210 SW Corner

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: 0.1250 Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K	
Ascospores					7
Total					7

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C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
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Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-020: Building 2-2nd Floor-E of Office 209

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: 0.4000 Critical value: N/A Outside Similar: N/A	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Ascospores	7
Basidiospores	7
Penicillium/Aspergillus types	7
Total	20

Location: UNO-027-AOC-021: Building 2-3rd Floor-Office 311

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.4000 Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	7
Total	7

Location: UNO-027-AOC-022: Building 2-2nd Floor-S of Office 311

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.1286 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	7
Curvularia	7
Nigrospora	7
Smuts, Periconia, Myxomycetes	7
Total	27

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Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-023: Building 2-4th Floor-NE Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.3500 Critical value: N/A Outside Similar: N/A	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	13
Cladosporium	7
Total	20

Location: UNO-027-AOC-024: Building 3-3rd Floor-S of SW Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 5 Result: -0.6000 Critical value: 0.8000 Outside Similar: No	Score: 106 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Nigrospora	7
Torula	7
Total	13

Location: UNO-027-AOC-025: Building 3-3rd Floor-SW Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.4000 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Total	7

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Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-026: Building 3-3rd Floor-E of NW Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.1000 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	13
Cladosporium	13
Curvularia	13
Total	40

Location: UNO-027-AOC-027: Building 3-3rd Floor-NE Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 5 Result: -0.6000 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	7
Epicoccum	7
Total	13

Location: UNO-027-AOC-028: Building 3-3rd Floor-Office S of NE Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

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Client: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-029: Building 3-3rd Floor-W of SE Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 5 Result: -0.6000 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	7
Curvularia	7
Total	13

Location: UNO-027-AOC-030: Building 3-3rd Floor-Center of Southern Wall

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: -0.0982 Critical value: 0.6786 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	7
Cladosporium	7
Curvularia	7
Nigrospora	7
Pithomyces	7
Total	33

Location: UNO-027-AOC-031: Building 3-2nd Floor-SE Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.4000 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Total	7

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Client: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-032: Building 3-2nd Floor-W of SE Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.6000 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Curvularia	7
Other brown	7
Smuts, Periconia, Myxomycetes	7
Total	20

Location: UNO-027-AOC-033: Building 3-1st Floor-SE Corner Computer Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.4000 Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	7
Total	7

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Client: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-034: Building 3-1st Floor-SW Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 11%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 9 Result: -0.4292 Critical value: 0.5833 Outside Similar: No	Score: 190 Result: Medium

Species Detected	Spores/m3 <100 1K 10K >100K
Alternaria	7
Chaetomium	60
Curvularia	7
Other brown	7
Penicillium/Aspergillus types	7
Pithomyces	7
Total	93

Location: UNO-027-AOC-035: Building 4-1st Floor-SW Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: -0.2500 Critical value: N/A Outside Similar: N/A	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	7
Penicillium/Aspergillus types	13
Total	20

Location: UNO-027-AOC-036: Building 4-1st Floor-E of SW Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

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Client: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Date of Sampling: 12-26-2012
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: UNO-027-AOC-037: Exterior-Between Building 3 and 4

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Ascospores	80	13 - 190 - 5,400	76
Basidiospores	510	13 - 430 - 22,000	92
Cladosporium	< 7	27 - 480 - 10,000	91
Coelomycetes	110	7 - 140 - 1,300	< 1
Other brown	20	7 - 13 - 120	25
Other colorless	7	7 - 20 - 500	5
Penicillium/Aspergillus types	27	13 - 160 - 2,600	69
Pestalotiopsis	7	7 - 13 - 53	2
Smuts, Periconia, Myxomycetes	< 7	7 - 47 - 970	64
Total	750		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: UNO-027-AOC-012: Building 2-1st Floor-Office 134

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 8 Result: 0.0060 Critical value: 0.6190 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	20
Total	20

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-013: Building 2-1st Floor-Stairwell

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 32%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.5333	dF: 11 Result: 0.3364 Critical value: 0.5273 Outside Similar: No	Score: 117 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Ascospores	67
Basidiospores	20
Cladosporium	7
Curvularia	13
Other brown	20
Penicillium/Aspergillus types	110
Pithomyces	7
Rusts	7
Total	250

Location: UNO-027-AOC-014: Building 2-1st Floor-Chief Jones' Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: -0.1545 Critical value: 0.5273 Outside Similar: No	Score: 109 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	7
Basidiospores	27
Bipolaris/Drechslera group	7
Cladosporium	13
Other brown	7
Smuts, Periconia, Myxomycetes	7
Total	67

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-015: Building 2-1st Floor-Office 113

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 12%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.4000	dF: 12 Result: -0.4248 Critical value: 0.4965 Outside Similar: No	Score: 119 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Ascospores	7
Basidiospores	7
Cladosporium	27
Curvularia	13
Nigrospora	7
Other brown	7
Pithomyces	20
Smuts, Periconia, Myxomycetes	7
Total	93

Location: UNO-027-AOC-016: Building 2-2nd Floor-Office 211 SE Corner

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: -0.0542 Critical value: 0.5833 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	7
Cladosporium	7
Smuts, Periconia, Myxomycetes	7
Total	20

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Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
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Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-017: Building 2-2nd Floor-Office 211 NW Corner

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: -0.0542 Critical value: 0.5833 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Basidiospores	7			
Curvularia	7			
Smuts, Periconia, Myxomycetes	7			
Total	20			

Location: UNO-027-AOC-018: Building 2-2nd Floor-Office 210 NE Corner

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.1964 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Other brown	7			
Total	7			

Location: UNO-027-AOC-019: Building 2-2nd Floor-Office 210 SW Corner

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.4464 Critical value: 0.6786 Outside Similar: No	Score: 100 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Ascospores	7			
Total	7			

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C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-020: Building 2-2nd Floor-E of Office 209

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.6000	dF: 7 Result: 0.6339 Critical value: 0.6786 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Ascospores	7
Basidiospores	7
Penicillium/Aspergillus types	7
Total	20

Location: UNO-027-AOC-021: Building 2-3rd Floor-Office 311

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 8 Result: 0.0060 Critical value: 0.6190 Outside Similar: No	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	7
Total	7

Location: UNO-027-AOC-022: Building 2-2nd Floor-S of Office 311

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: -0.2121 Critical value: 0.5515 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	7
Curvularia	7
Nigrospora	7
Smuts, Periconia, Myxomycetes	7
Total	27

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C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-023: Building 2-4th Floor-NE Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.2976 Critical value: 0.6190 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	13
Cladosporium	7
Total	20

Location: UNO-027-AOC-024: Building 3-3rd Floor-S of SW Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 9 Result: -0.2792 Critical value: 0.5833 Outside Similar: No	Score: 106 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Nigrospora	7
Torula	7
Total	13

Location: UNO-027-AOC-025: Building 3-3rd Floor-SW Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.1964 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Total	7

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-026: Building 3-3rd Floor-E of NW Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: -0.0542 Critical value: 0.5833 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	13
Cladosporium	13
Curvularia	13
Total	40

Location: UNO-027-AOC-027: Building 3-3rd Floor-NE Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 9 Result: -0.2792 Critical value: 0.5833 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	7
Epicoccum	7
Total	13

Location: UNO-027-AOC-028: Building 3-3rd Floor-Office S of NE Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

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Date of Sampling: 12-26-2012
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Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-029: Building 3-3rd Floor-W of SE Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 9 Result: -0.2792 Critical value: 0.5833 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K	
Cladosporium		7
Curvularia		7
Total		13

Location: UNO-027-AOC-030: Building 3-3rd Floor-Center of Southern Wall

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: -0.3000 Critical value: 0.5273 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K	
Basidiospores		7
Cladosporium		7
Curvularia		7
Nigrospora		7
Pithomyces		7
Total		33

Location: UNO-027-AOC-031: Building 3-2nd Floor-SE Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.1964 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K	
Other brown		7
Total		7

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Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
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Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-032: Building 3-2nd Floor-W of SE Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: -0.3542 Critical value: 0.5833 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Curvularia	7
Other brown	7
Smuts, Periconia, Myxomycetes	7
Total	20

Location: UNO-027-AOC-033: Building 3-1st Floor-SE Corner Computer Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: 8 Result: 0.0060 Critical value: 0.6190 Outside Similar: No	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	7
Total	7

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6301 NW 5th Way, Suite 2850, Ft. Lauderdale, FL 33309
(877) 711-8400 Fax (954) 776-8485 www.emlab.com

Client: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: UNO-027-AOC-034: Building 3-1st Floor-SW Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 12%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: -0.4795 Critical value: 0.5273 Outside Similar: No	Score: 190 Result: Medium

Species Detected	Spores/m3 <100 1K 10K >100K
Alternaria	7
Chaetomium	60
Curvularia	7
Other brown	7
Penicillium/Aspergillus types	7
Pithomyces	7
Total	93

Location: UNO-027-AOC-035: Building 4-1st Floor-SW Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.5089 Critical value: 0.6786 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	7
Penicillium/Aspergillus types	13
Total	20

Location: UNO-027-AOC-036: Building 4-1st Floor-E of SW Corner Office

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 24 Result: 27.0788 Critical value: 36.4150 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

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Client: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: UNO-NAVY Buildings 2-4

Date of Sampling: 12-26-2012
Date of Receipt: 12-28-2012
Date of Report: 12-31-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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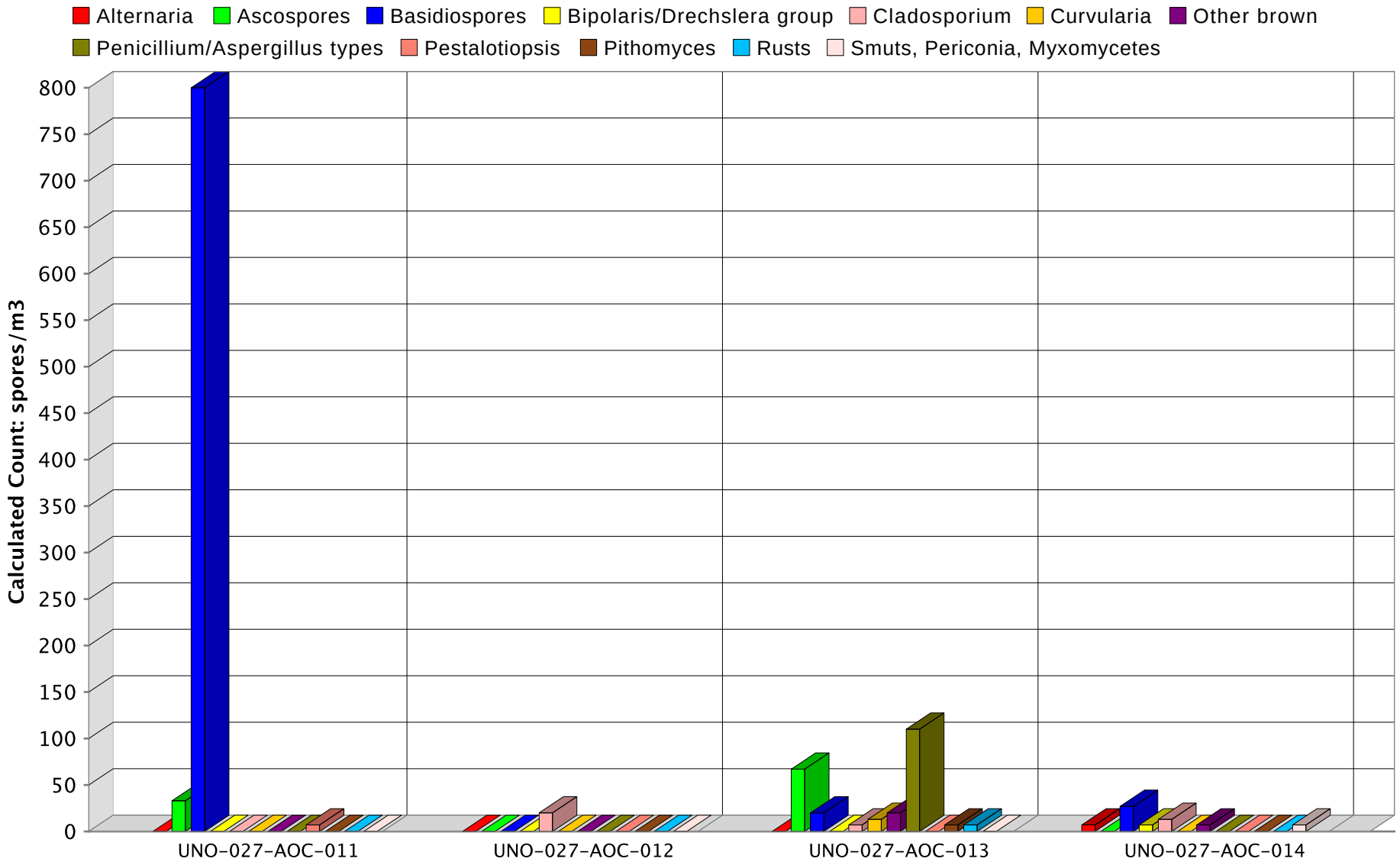
SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



Comments:

Note: Graphical output may understate the importance of certain "marker" genera.

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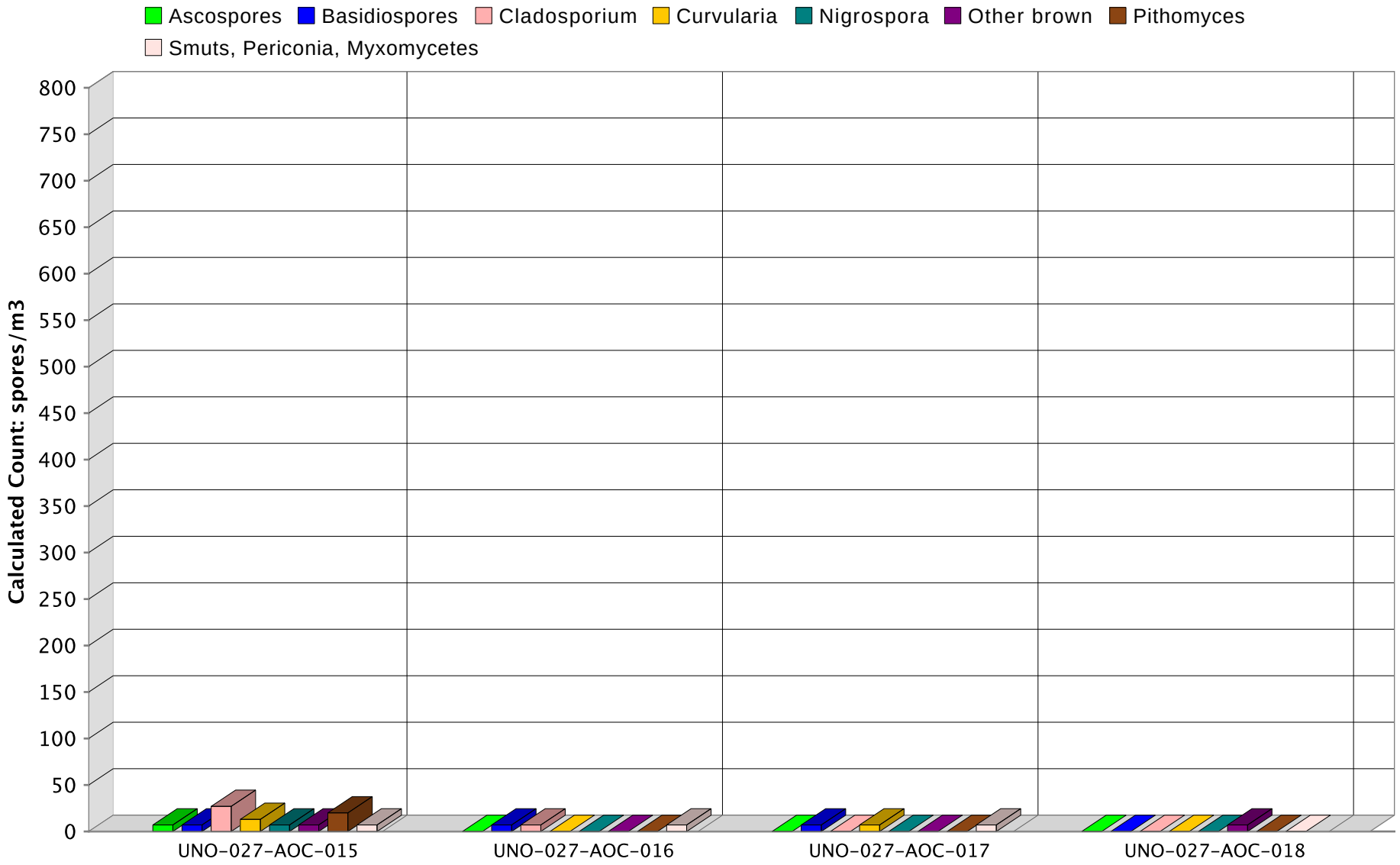
SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



Comments:

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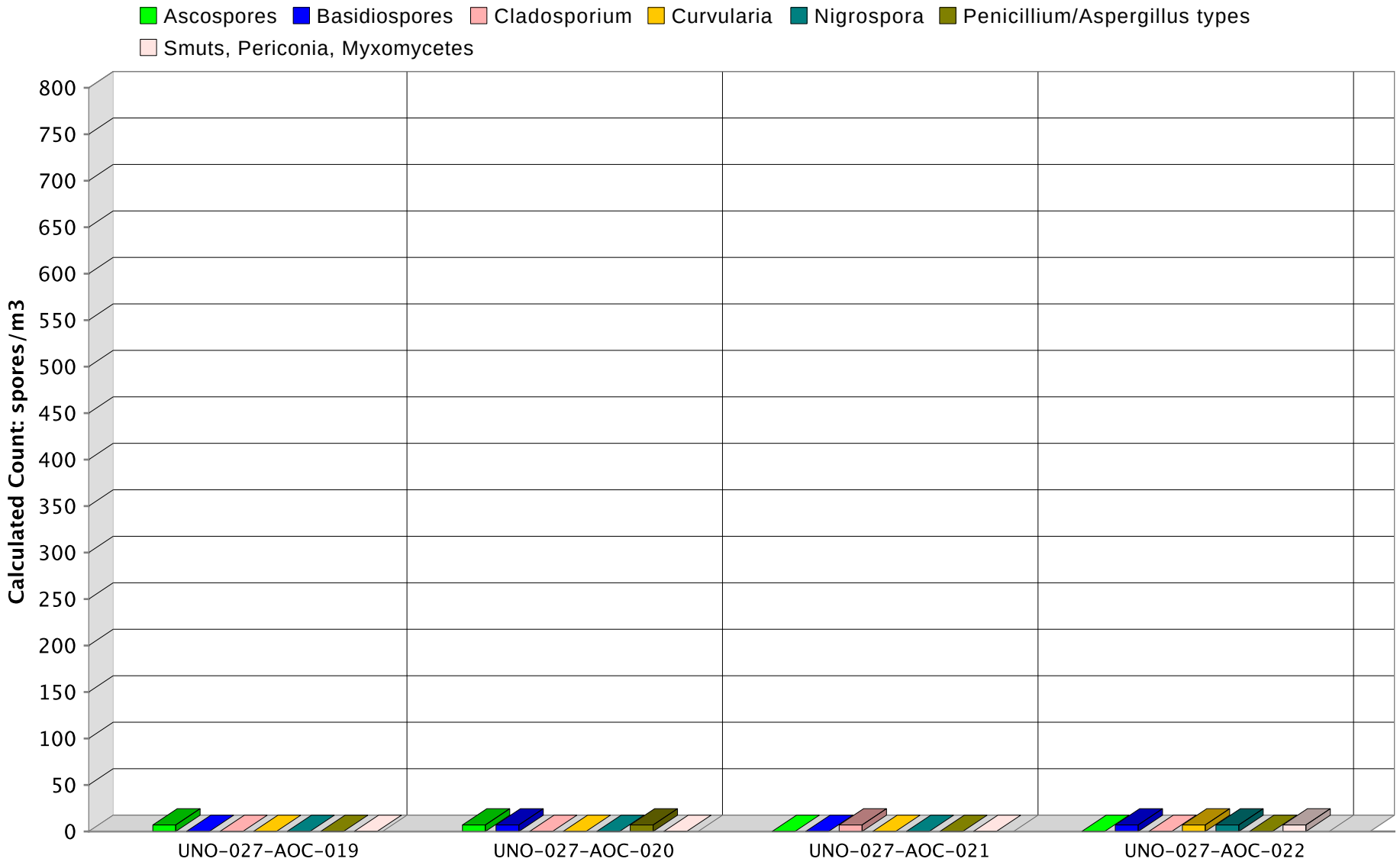

Comments:

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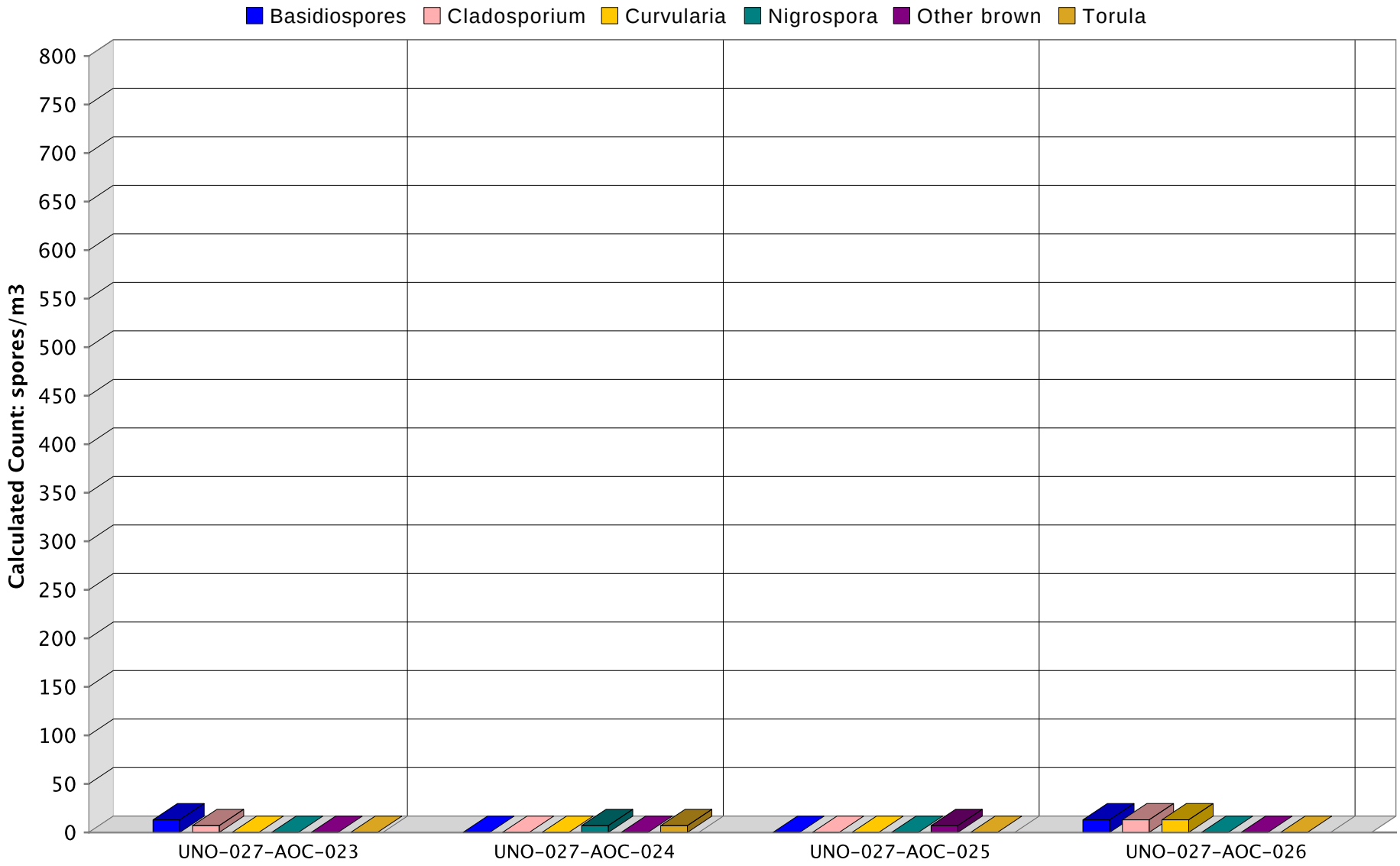

Comments:

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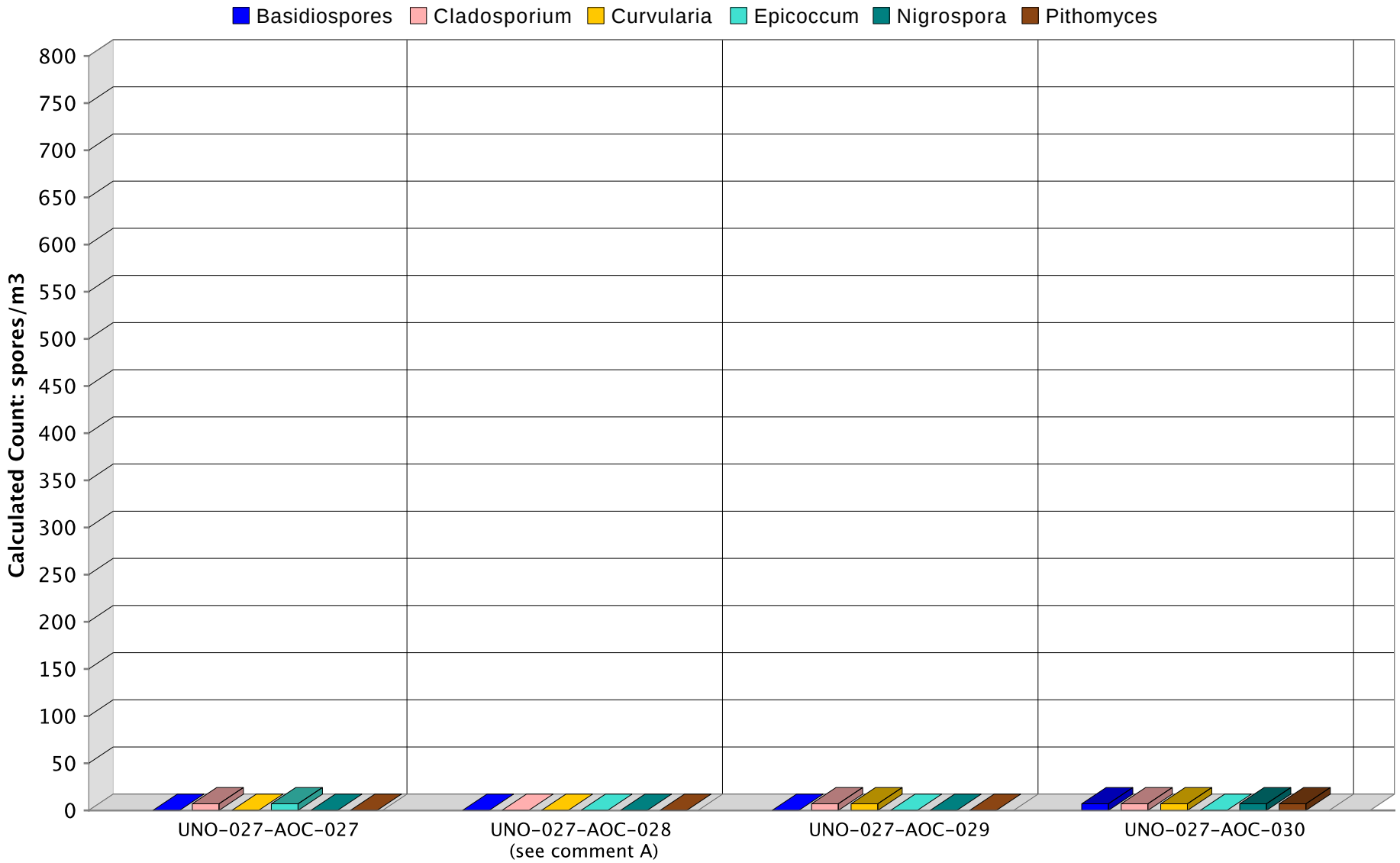

Comments: A) No spores detected.

Note: Graphical output may understate the importance of certain "marker" genera.

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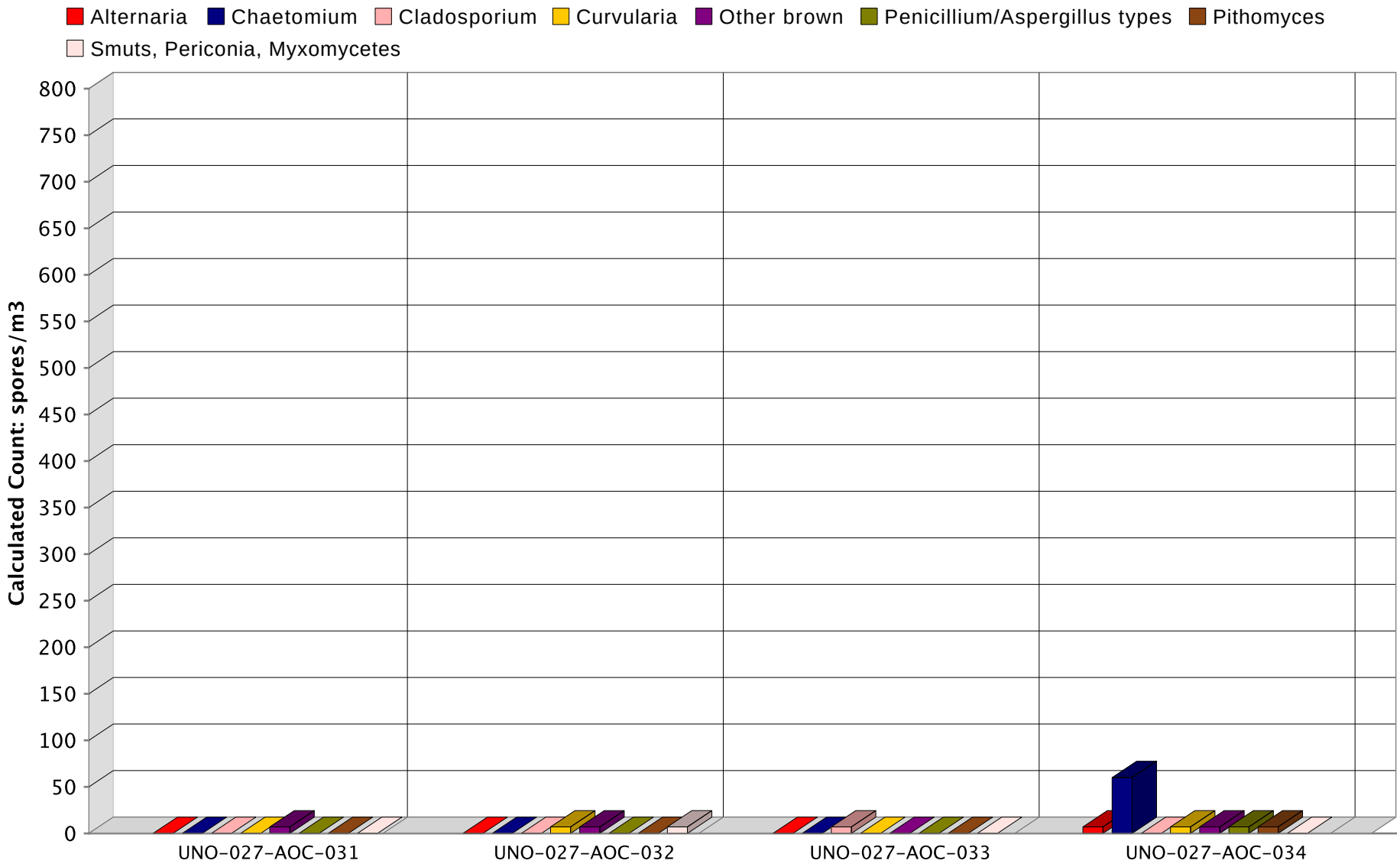

Comments:

Note: Graphical output may understate the importance of certain "marker" genera.

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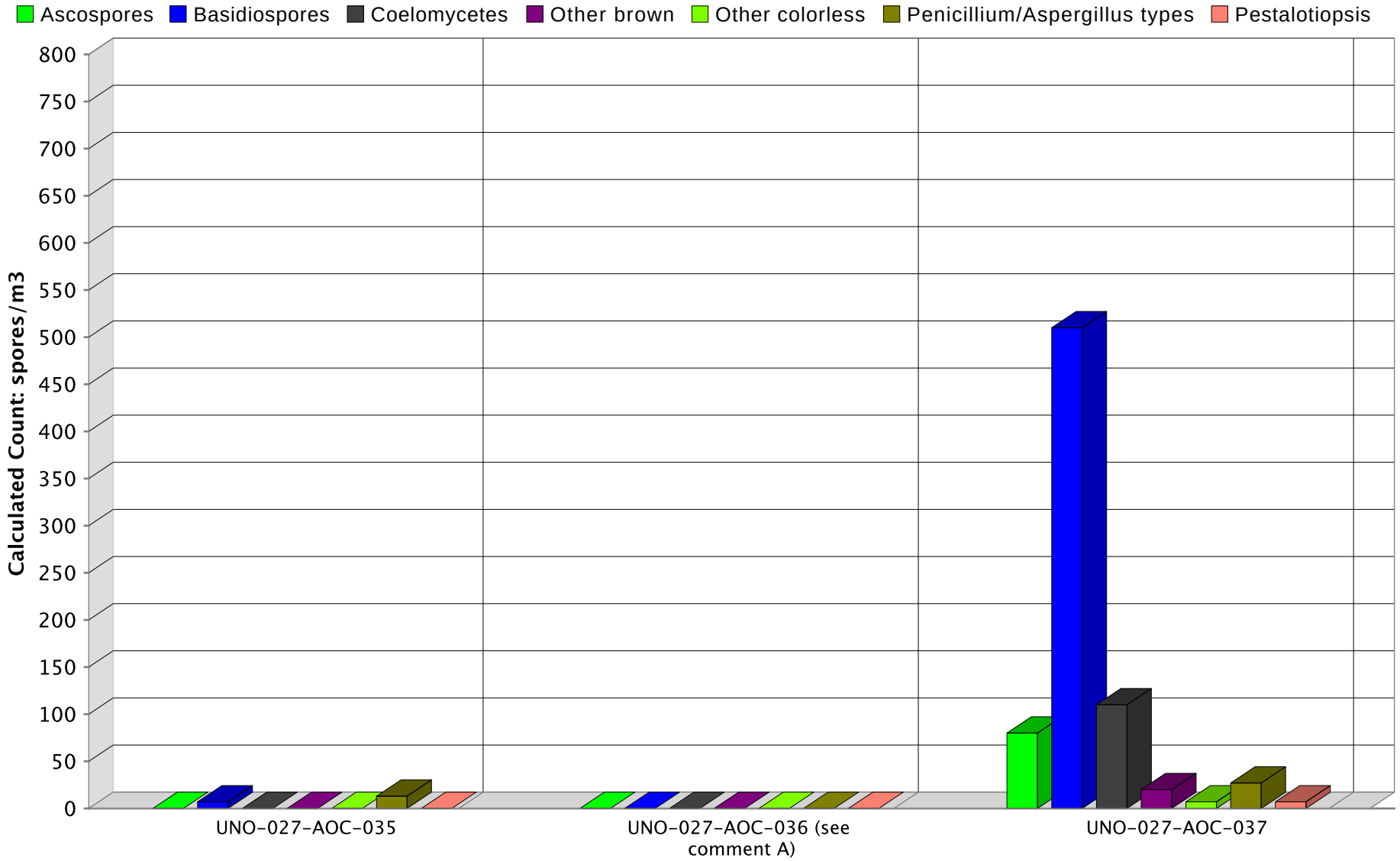
SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



Comments: A) No spores detected.

Note: Graphical output may understate the importance of certain "marker" genera.

Leaaf

Mold Chain of Custody

001009621

Project Name:	UNO – NAVY Buildings 2-4	Project #	UNO-027
Address:	2285 Lakeshore Drive, New Orleans, LA 70122		
Leaaf Contact:	Jim Blazek, Jr	Email	jim@leaaf.com

Turnaround: ☐Same Day ☐24 Hr ☐48 Hr ☐72hr ☒Standard ☐Other_____

Sample By: Jim Blazek, Jr. | Sample Date: 26 December 2012

Analysis: ☒ Fungi – Spore Trap Analysis ☐ Spore Trap Analysis – Other Particles ☐ Direct Microscopic Exam (Qualitative) ☐ Quantitative Spore Count Direct Exam

Sample #	Description	Volume, Area or HA# (as Applicable)
UNO-027-AOC-011	Exterior – Between Buildings 2 and 3	150 l
UNO-027-AOC-012	Building 2 – 1st Floor - Office 134	150 l
UNO-027-AOC-013	Building 2 – 1st Floor - Stairwell	150 l
UNO-027-AOC-014	Building 2 – 1st Floor - Chief Jones' Office	150 l
UNO-027-AOC-015	Building 2 – 1st Floor - Office 113	150 l
UNO-027-AOC-016	Building 2 – 2nd Floor – Office 211 SE Corner	150 l
UNO-027-AOC-017	Building 2 – 2nd Floor – Office 211 NW Corner	150 l
UNO-027-AOC-018	Building 2 – 2nd Floor –Office 210 NE Corner	150 l
UNO-027-AOC-019	Building 2 – 2nd Floor – Office 210 SW Corner	150 l
UNO-027-AOC-020	Building 2 – 2rd Floor –E of Office 209	150 l
UNO-027-AOC-021	Building 2 – 3rd Floor – Office 311	150 l
UNO-027-AOC-022	Building 2 – 3rd Floor – S of Office 311	150 l
UNO-027-AOC-023	Building 2 – 4th Floor – NE Office	150 l
UNO-027-AOC-024	Building 3 – 3rd Floor – S of SW Corner Office	150 l
UNO-027-AOC-025	Building 3 – 3rd Floor – SW Corner Office	150 l
UNO-027-AOC-026	Building 3 – 3rd Floor – E of NW Corner Office	150 l
UNO-027-AOC-027	Building 3 – 3rd Floor – NE Corner Office	150 l
UNO-027-AOC-028	Building 3 – 3rd Floor – Office S of NE Corner Office	150 l
UNO-027-AOC-029	Building 3 – 3rd Floor – W of SE Corner office	150 l
UNO-027-AOC-030	Building 3 – 3rd Floor – Center of Southern Wall	150 l

Receiving Laboratory	EMLab P&K	Phone Number
Address	6301 NW 5th Way Suite 2850, Ft. Lauderdale, FL 33309 1501 West Knudsen Dr., Phoenix, AZ 85027	(877) 711-8400 (800) 651-4802

Released By:	Date / Time	Received By:	Date / Time
	27DEC2012/0901	FedEx	899473252202
FedEx	See Shipping Docs		
			12/28/12 930

☐Positive Stop on HA ☒Additional Pages Attached Page 1 of 2

Leaaf

Mold Chain of Custody

001009621

Project Name:	UNO – NAVY Buildings 2-4	Project #	UNO-027
Address:	2285 Lakeshore Drive, New Orleans, LA 70122		

Sample #	Description	Volume, Area or HA# (as Applicable)
UNO-027-AOC-031	Building 3 – 2nd Floor – SE Corner Office	150 l
UNO-027-AOC-032	Building 3 – 2nd Floor – W of SE Corner Office	150 l
UNO-027-AOC-033	Building 3 – 1st Floor – SE Corner Computer Office	150 l
UNO-027-AOC-034	Building 3 – 1st Floor – SW Corner	150 l
UNO-027-AOC-035	Building 4 – 1st Floor – SW Corner Office	150 l
UNO-027-AOC-036	Building 4 – 1st Floor – E of SW Corner Office	150 l
UNO-027-AOC-037	Exterior – Between Building 3 and 4	150 l
	[signature]	12/28/12 4/0

☐Positive Stop on HA ☐Additional Pages Attached Page 2 of 2

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812 Rupp St Gretna, LA 70053

(504) 342-2687
www.leaaf.com

Appendix C

Sources of Information

Sources of Information

1. New York City Department of Health and Mental Hygiene. Guidelines on Assessment and Remediation of Fungi in Indoor Environments. November 2008
2. Environmental Protection Agency. A Brief Guide to Mold, Moisture and your Home. EPA 402-K-02-003
3. Environmental Protection Agency, Mold Remediation in Schools and Commercial Buildings, EPA 402-K-01-001, March 2001
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10. Environmental Assessment Association. The Basic Guide to Mold Awareness and Inspection. 2002
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15. Environmental Assessment Association, The Basic Guide to Mold Awareness and Inspection, 2001.
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